To what extent do terrorist attacks affect public sentiment surrounding immigration and refugee policy? A case study of the Stockholm terrorist attack, April 2017.

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Loading the libraries

```
library(readr)
library(tidyr)
library(dplyr)
library(lubridate)
library(ggplot2)
library(DataExplorer)
library(cobalt)
library(sandwich)
library(lmtest)
library(tableone)
library(Matching )
library(stats)
library(broom)
library(ggplot2)
library(flextable)
library(officer)
library(MatchIt)
library(car)
```

Loading the data

```
big_data <- read_csv("R_TFM/ESS8e02_3.csv")
timing_data_unformatted <- read_csv("R_TFM/ESS8TIMEe01.csv")</pre>
```

Cleaning the data

```
# Select only the necessary variables from the second dataset
timing_data <- timing_data_unformatted |>
    dplyr::select(idno, inwdds, inwmms, inwyys, inwshh, inwsmm) |>
    filter(inwyys != 9999)

# Combine the date and time variables into a single datetime variable
timing_data <- timing_data |>
    mutate(interview_datetime = make_datetime(inwyys, inwmms, inwdds))

# Remove the original date and time variables
```

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))

summary(df_allNA)

```
swedish_data <- df_allNA |>
  filter(cntry == "SE")

# Define the date of the terrorist attack
swedish_attack_date <- as.Date("2017-04-7")

# Create a centered time variable and treatment variable
swedish_data <- swedish_data |>
  mutate(time_centered = as.numeric(difftime(interview_datetime, swedish_attack_date,
  mutate(treatment = ifelse(time_centered >= 0, TRUE, FALSE)) |>
  drop_na()

summary(swedish_data)
```

Descriptive analysis and balance tests

```
# Summary statistics of key variables
summary(swedish_data)
```

```
idno
                    cntry
                                interview_datetime
Min.
       : 10
                SE
                       :9230
                                       :2016-08-22 00:00:00.00
                                Min.
1st Qu.: 731
                                1st Qu.:2016-10-25 00:00:00.00
                AT
Median:1323
                BE
                           0
                               Median :2016-12-03 00:00:00.00
Mean
       :1470
                CH
                               Mean
                                       :2017-01-24 08:09:06.04
3rd Qu.:2163
                CZ
                           0
                                3rd Qu.:2017-03-07 00:00:00.00
Max.
       :3514
                DE
                           0
                               Max.
                                       :2017-12-28 00:00:00.00
                (Other):
                           a
                      netusoft
    nwspol
                                       trstplc
                                                         prtvtbse
Min.
           0.00
                   Min.
                          :1.000
                                           : 0.000
                                                             : 1.000
                                    1st Qu.: 6.000
1st Ou.:
          30.00
                                                      1st Ou.: 5.000
                   1st Qu.:5.000
Median :
          60.00
                   Median :5.000
                                    Median : 7.000
                                                      Median : 6.000
          74.86
                          :4.487
                                           : 6.695
Mean
                   Mean
                                    Mean
                                                      Mean
                                                              : 5.435
                                    3rd Qu.: 8.000
                                                      3rd Qu.: 6.000
3rd Qu.:
          90.00
                   3rd Qu.:5.000
Max.
       :1410.00
                   Max.
                          :5.000
                                    Max.
                                           :10.000
                                                      Max.
                                                              :11.000
   imdfetn
                    impcntr
                                     imbgeco
                                                       imwbcnt
Min.
       :1.000
                        :1.000
                                         : 0.000
                                                    Min.
                                                            : 0.000
                                  Min.
1st Qu.:1.000
                 1st Qu.:1.000
                                  1st Qu.: 5.000
                                                    1st Qu.: 5.000
Median:2.000
                 Median :2.000
                                  Median : 6.000
                                                    Median : 7.000
                                         : 5.807
                                                            : 6.287
Mean
       :1.721
                 Mean
                        :1.805
                                  Mean
                                                    Mean
                                  3rd Qu.: 7.000
                                                    3rd Qu.: 8.000
3rd Qu.:2.000
                 3rd Qu.:2.000
                        :4.000
Max.
       :4.000
                                  Max.
                                         :10.000
                                                    Max.
                                                            :10.000
                 Max.
    rlabla
                     rladar
                                                      rfqfrpc
                                      gvrfgap
Min.
       :1.000
                 Min.
                        : 0.000
                                   Min.
                                          :1.00
                                                   Min.
                                                          :1.000
1st Qu.:1.000
                 1st Qu.: 0.000
                                   1st Qu.:2.00
                                                   1st Qu.:3.000
Median :2.000
                 Median : 2.000
                                   Median :3.00
                                                   Median :3.000
                        : 2.992
Mean
       :1.628
                 Mean
                                   Mean
                                          :2.59
                                                   Mean
                                                          :3.327
3rd Qu.:2.000
                 3rd Qu.: 5.000
                                   3rd Qu.:3.00
                                                   3rd Qu.:4.000
                                          :5.00
Max.
       :2.000
                 Max.
                        :10.000
                                   Max.
                                                   Max.
                                                          :5.000
```

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```
rfgbfml
                     gndr
                                                     eisced
                                     agea
Min.
       :1.000
                Min.
                       :1.000
                                Min.
                                       :20.00
                                                Min.
                                                        : 1.000
1st Qu.:2.000
                                                 1st Qu.: 3.000
                1st Qu.:1.000
                                1st Qu.:42.00
Median :2.000
                Median :1.000
                                Median :56.00
                                                Median : 5.000
Mean
       :2.602
                Mean
                      :1.484
                                Mean
                                       :55.09
                                                Mean
                                                        : 4.546
3rd Ou.:3.000
                3rd 0u.:2.000
                                3rd 0u.:68.00
                                                 3rd Ou.: 6.000
Max.
       :5.000
                Max.
                       :2.000
                                Max.
                                       :90.00
                                                Max.
                                                        :55,000
    uempla
                     hinctnta
                                        region
                                                   time centered
Min.
       :0.00000
                  Min.
                         : 1.000
                                   SE110 :1757
                                                   Min.
                                                          :-228.00
                  1st Qu.: 4.000
                                                   1st Qu.:-164.00
1st Qu.:0.00000
                                   SE224 :1524
                  Median : 7.000
                                                  Median :-125.00
Median :0.00000
                                   SE214 :1220
Mean
       :0.01625
                  Mean
                         : 6.465
                                   SE123 : 502
                                                  Mean
                                                          : -72.66
3rd Qu.:0.00000
                  3rd Qu.: 9.000
                                   SE331 : 373
                                                  3rd Qu.: -31.00
Max.
       :1.00000
                  Max.
                         :10.000
                                   SE321 : 345
                                                  Max.
                                                          : 265.00
                                    (Other):3509
treatment
```

Mode :logical FALSE:7283
TRUE :1947

DataExplorer::create_report(swedish_data)

```
processing file: report.rmd
1/42
2/42 [global_options]
3/42
4/42 [introduce]
5/42
6/42 [plot_intro]
7/42
8/42 [data_structure]
9/42
10/42 [missing_profile]
11/42
12/42 [univariate_distribution_header]
13/42
14/42 [plot_histogram]
15/42
16/42 [plot_density]
17/42
18/42 [plot_frequency_bar]
```

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RTS '/Users/alexandrasalo/Desktop/UC3M TFM/report.knit.md' —to html4 —from markdown+autolink_bare_uris+tex_math_single_backslash —output pandocb12f5f934884.html —lua—filter /Library/Frameworks/R.framework/Versions/4.3— x86_64/Resources/library/rmarkdown/rmarkdown/lua/pagebreak.lua —lua—filter /Library/Frameworks/R.framework/Versions/4.3— x86_64/Resources/library/rmarkdown/rmarkdown/lua/latex—div.lua —embed—resources — standalone —variable bs3=TRUE —section—divs —table—of—contents —toc—depth 6 — template /Library/Frameworks/R.framework/Versions/4.3— x86_64/Resources/library/rmarkdown/rmd/h/default.html —no—highlight —variable highlightjs=1 —variable theme=yeti —mathjax —variable 'mathjax—url=https://mathjax.rstudio.com/latest/MathJax.js?config=TeX—AMS—MML_HTMLorMML' — include—in—header /var/folders/8y/722shxnx3sj3sw4sdp_w7z400000gn/T//Rtmpk7Sfbu/rmarkdown—strb12f71797f47.html

Output created: report.html

```
# Balance checks of the data pre and post attack
pre_attack <- swedish_data |> filter(time_centered < 0)
post_attack <- swedish_data |> filter(time_centered >= 0)
```

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Summary statistics for covariates before and after the event summary(pre_attack)

	a m 4 m		_
idno	-	interview_datetim	
Min. : 10		Min. :2016-08-2	
1st Qu.: 747		1st Qu.:2016-10-1	
Median :1338		Median :2016-11-1	
Mean :1493		Mean :2016-11-2	
3rd Qu.:2247		3rd Qu.:2017-01-1	
Max. :3514		Max. :2017-04-0	6 00:00:00.0
	(Other): 0	h	and the
•	netusoft	•	•
Min. : 0.00			
1st Qu.: 30.00			
Median : 60.00			
Mean : 74.4			
3rd Qu.: 90.00			•
Max. :1410.00	0 Max. :5.00	0 Max. :10.00	0 Max. :11.000
imdfetn	impcntr	imbgeco	imwbcnt
Min. :1.00	Min. :1.000	Min. : 0.000	Min. : 0.000
1st Qu.:1.00			
	1st Qu.:1.000	1st Qu.: 5.000	1st Qu.: 5.000
Median :2.00	Median :2.000	Median : 6.000	Median : 7.000
Mean :1.72	Mean :1.804	Mean : 5.811	Mean : 6.291
3rd Qu.:2.00	3rd Qu.:2.000	3rd Qu.: 7.000	3rd Qu.: 8.000
Max. :4.00	Max. :4.000	Max. :10.000	Max. :10.000
rlgblg	rlgdgr	gvrfgap	rfgfrpc
Min. :1.000	Min. : 0.000		Min. :1.000
1st Qu.:1.000	1st Qu.: 0.000		1st Qu.:3.000
Median :2.000	Median : 2.000		Median :3.000
neatan 121000	nearan i ziooo		
Mean •1.632	Mean • 2.969	Mean • 2.504	Mean •3.328
Mean :1.632	Mean : 2.969		Mean :3.328
3rd Qu.:2.000	3rd Qu.: 5.000	3rd Qu.:3.000	3rd Qu.:4.000
		3rd Qu.:3.000	3rd Qu.:4.000
3rd Qu.:2.000 Max. :2.000	3rd Qu.: 5.000	3rd Qu.:3.000 Max. :5.000	3rd Qu.:4.000 Max. :5.000
3rd Qu.:2.000 Max. :2.000	3rd Qu.: 5.000 Max. :10.000	3rd Qu.:3.000 Max. :5.000 agea	3rd Qu.:4.000 Max. :5.000
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000 Mean :1.482	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000 Mean :1.482 3rd Qu.:2.000	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000 Mean :1.482	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000 Mean :1.482 3rd Qu.:2.000 Max. :2.000	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000 Max. :5.000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000 Mean :1.482 3rd Qu.:2.000 Max. :2.000 hinctnta	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00 region	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000 time_centered
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000 Max. :5.000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000 Mean :1.482 3rd Qu.:2.000 Max. :2.000 hinctnta Min. : 1.0	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00 region 00 SE110 :1374	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000 time_centered Min. :-228
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000 Max. :5.000 uempla Min. :0.00000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.482 3rd Qu.:2.000 Max. :2.000 hinctnta Min. : 1.0 1st Qu.: 4.0	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00 region 00 SE110 :1374 00 SE224 :1200	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000 time_centered Min. :-228 1st Qu.:-175
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000 Max. :5.000 uempla Min. :0.000000 1st Qu.:0.0000000000000000000000000000000000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.000 Mean :1.482 3rd Qu.:2.000 Max. :2.000 hinctnta Min. : 1.0 1st Qu.: 4.0 Median : 7.0	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00 region 00 SE110 :1374 00 SE224 :1200 00 SE214 : 964	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000 time_centered Min. :-228 1st Qu.:-175 Median :-142
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000 Max. :5.000 uempla Min. :0.00000 1st Qu.:0.00000 Median :0.00000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.482 3rd Qu.:2.000 Max. :2.000 hinctnta Min. : 1.0 1st Qu.: 4.0 Median : 7.0 Median : 7.0 Median : 6.4	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00 region 00 SE110 :1374 00 SE224 :1200 00 SE214 : 964 74 SE123 : 399	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000 time_centered Min. :-228 1st Qu.:-175 Median :-142 Mean :-131
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000 Max. :5.000 uempla Min. :0.00000 1st Qu.:0.00000 Median :0.000000 Median :0.01648	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.482 3rd Qu.:2.000 Max. :2.000 hinctnta Min. : 1.0 1st Qu.: 4.0 Median : 7.0 Median : 7.0 Median : 7.0 Median : 6.4 3rd Qu.: 9.0	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00 region 00 SE110 :1374 00 SE224 :1200 00 SE214 : 964 74 SE123 : 399 00 SE331 : 298	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000 time_centered Min. :-228 1st Qu.:-175 Median :-142 Mean :-131 3rd Qu.: -84
3rd Qu.:2.000 Max. :2.000 rfgbfml Min. :1.000 1st Qu.:2.000 Median :2.000 Mean :2.599 3rd Qu.:3.000 Max. :5.000 uempla Min. :0.00000 1st Qu.:0.00000 Median :0.01648 3rd Qu.:0.00000	3rd Qu.: 5.000 Max. :10.000 gndr Min. :1.000 1st Qu.:1.000 Median :1.482 3rd Qu.:2.000 Max. :2.000 hinctnta Min. : 1.0 1st Qu.: 4.0 Median : 7.0 Median : 7.0 Median : 7.0 Median : 6.4 3rd Qu.: 9.0	3rd Qu.:3.000 Max. :5.000 agea Min. :20.00 1st Qu.:41.00 Median :56.00 Mean :54.68 3rd Qu.:68.00 Max. :90.00 region 00 SE110 :1374 00 SE224 :1200 00 SE214 : 964 74 SE123 : 399 00 SE331 : 298	3rd Qu.:4.000 Max. :5.000 eisced Min. : 1.000 1st Qu.: 3.000 Median : 5.000 Mean : 4.544 3rd Qu.: 6.000 Max. :55.000 time_centered Min. :-228 1st Qu.:-175 Median :-142 Mean :-131 3rd Qu.: -84 Max. : -1

treatment
Mode :logical
FALSE:7283

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summary(post_attack)

idno	cntry	<pre>interview_datetime</pre>	
Min. : 10	SE :1947	Min. :2017-04-07	
	AT : 0	1st Qu.:2017-06-14	00:00:00.00
	BE : 0	Median :2017-10-11	
	CH : 0	Mean :2017-08-30	
	CZ : 0	3rd Qu.:2017-11-03	
	DE : 0	Max. :2017-12-28	
	(Other): 0	110X1 12017 12 20	00.00.00.00
nwspol	netusoft	trstplc	prtvtbse
Min. : 0.00		·	Min. : 1.000
1st Qu.: 30.00			1st Qu.: 5.000
Median : 60.00			Median : 6.000
Mean : 76.42			Mean : 5.365
3rd Qu.: 90.00			3rd Qu.: 6.000
Max. :1410.00			Max. :11.000
11410.00	11071 .3.00	70 Maxi .10:00	11dX1 .111.000
imdfetn	impcntr	imbgeco	imwbcnt
Min. :1.000	Min. :1.000	Min. : 0.000	Min. : 0.000
1st Qu.:1.000	1st Qu.:1.000	1st Qu.: 5.000	1st Qu.: 5.000
Median :2.000	Median :2.000	Median : 6.000	Median : 7.000
Mean :1.724	Mean :1.809	Mean : 5.791	Mean : 6.272
3rd Qu.:2.000	3rd Qu.:2.000		3rd Qu.: 8.000
Max. :4.000	Max. :4.000	Max. :10.000	Max. :10.000
rlgblg	rlgdgr	gvrfgap	rfgfrpc
Min. :1.000	Min. : 0.000	Min. :1.000	Min. :1.000
1st Qu.:1.000	1st Qu.: 0.000	1st Qu.:2.000	1st Qu.:3.000
Median :2.000	Median : 3.000	Median :2.000	Median :3.000
Mean :1.617	Mean : 3.077	7 Mean :2.577	Mean :3.322
3rd Qu.:2.000	3rd Qu.: 5.000	3rd Qu.:3.000	3rd Qu.:4.000
Max. :2.000	Max. :10.000	Max. :5.000	Max. :5.000
rfgbfml	gndr	agea	eisced
Min. :1.000	Min. :1.000	Min. :20.00	Min. : 1.000
1st Qu.:2.000	1st Qu.:1.000	1st Qu.:46.00	1st Qu.: 3.000
Median :2.000	Median :1.000	Median :58.00	Median : 5.000
Mean :2.614	Mean :1.493	Mean :56.62	Mean : 4.554
3rd Qu.:3.000	3rd Qu.:2.000	3rd Qu.:69.00	3rd Qu.: 6.000
Max. :5.000	Max. :2.000	Max. :90.00	Max. :55.000
uempla	hinctnta	region	time_centered
Min. :0.00000	Min. : 1.0	000 SE110 :383	Min. : 0.0
1st Qu.:0.00000	1st Qu.: 4.0	000 SE224 :324	1st Qu.: 68.0
Median :0.00000	Median : 7.0	000 SE214 :256	Median :187.0
Mean :0.01541	Mean : 6.4	133 SE123 :103	Mean :145.5

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```
3rd Qu.:0.00000 3rd Qu.: 9.000 SE321 : 76 3rd Qu.:210.0 Max. :1.00000 Max. :10.000 SE331 : 75 Max. :265.0 (Other):730
```

treatment
Mode:logical
TRUE:1947

```
# Using tableone to create a summary table
table_one <- CreateTableOne(vars = covariates, strata = "treatment", data = swedish_da</pre>
```

Warning in CreateTableOne(vars = covariates, strata = "treatment", data = swedish_data, : Dropping variable(s) interview_datetime due to unsupported class.

```
table_one_print <- print(table_one, smd = TRUE)
```

Stratified by treatment						
	FALSE		TRUE		SMD	
n	7283		1947			
idno (mean (SD))	1492.61	(893.53)	1384.02	(851.97)		
cntry (%)					<0.001	
AT		•	0	(0.0)		
BE	0	•	0	(0.0)		
СН	0	(0.0)	0	(0.0)		
CZ	0	(0.0)	0	(0.0)		
DE	0	(0.0)	0	(0.0)		
EE	0	(0.0)	0	(0.0)		
ES	0	(0.0)	0	(0.0)		
FI	0	(0.0)	0	(0.0)		
FR	0	(0.0)	0	(0.0)		
GB	0	(0.0)	0	(0.0)		
HU	0	(0.0)	0	(0.0)		
IE	0	(0.0)	0	(0.0)		
IL	0	(0.0)	0	(0.0)		
IS	0	(0.0)	0	(0.0)		
IT	0	(0.0)	0	(0.0)		
LT	0	(0.0)	0	(0.0)		
NL	0	(0.0)	0	(0.0)		
NO	0	(0.0)	0	(0.0)		
PL	0	(0.0)	0	(0.0)		
PT	0	(0.0)	0	(0.0)		
RU	0	(0.0)	0	(0.0)		
SE	7283	(100.0)	1947	(100.0)		
SI	0	(0.0)	0	(0.0)		
nwspol (mean (SD))	74.44	(100.81)	76.42	(96.15)	0.020	
netusoft (mean (SD))		(1.14)	4.46	(1.18)	0.029	
trstplc (mean (SD))		(2.02)		(1.99)	0.003	
prtvtbse (mean (SD))		(2.09)		(2.15)	0.042	
<pre>imdfetn (mean (SD))</pre>		(0.64)		(0.65)	0.005	
		,	,_	, , , , , ,	0.000	

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24, 10.12 To what extent do terro				iding miningian	on and reruged
<pre>impcntr (mean (SD))</pre>				(0.71)	
imbgeco (mean (SD))				(2.24)	
imwbcnt (mean (SD))				(2.25)	
rlgblg (mean (SD))				(0.49)	
rlgdgr (mean (SD))				(2.74)	0.039
gvrfgap (mean (SD))				(0.96)	
rfgfrpc (mean (SD))		(0.90)		(0.88)	0.007
rfgbfml (mean (SD))				(0.99)	0.016
9		(0.50)		(0.50)	
agea (mean (SD))		(16.43)		(15.81)	
eisced (mean (SD))				(2.65)	0.004
uempla (mean (SD))				(0.12)	
hinctnta (mean (SD))	6.4/	(2.86)	6.43	(2.87)	0.014
region (%)	0	(0 0)	0	(0 0)	0.058
99999		(0.0)		(0.0)	
AT11		(0.0)		(0.0)	
AT12		(0.0)		(0.0)	
AT13		(0.0)		(0.0)	
AT21		(0.0)		(0.0)	
AT22		(0.0)		(0.0)	
AT31		(0.0)		(0.0)	
AT32		(0.0)		(0.0)	
AT34		(0.0)		(0.0)	
AT34		(0.0)		(0.0)	
BE10		(0.0)	0	(0.0)	
BE21		(0.0)		(0.0)	
BE22		(0.0)		(0.0)	
BE23		(0.0)		(0.0)	
BE24		(0.0)		(0.0)	
BE25		(0.0)		(0.0)	
BE31		(0.0)		(0.0)	
BE32		(0.0)		(0.0)	
BE33	0	(0.0)	0	(0.0)	
BE34			0	(0.0)	
BE35	0	(0.0)	0	(0.0)	
CH01 CH02		(0.0) (0.0)	0	(0.0)	
			0	(0.0) (0.0)	
CH03 CH04	0	(0.0) (0.0)	0	(0.0)	
CH04 CH05	0		0	(0.0)	
CH06		(0.0)	0	(0.0)	
CH07		(0.0)	0	(0.0)	
CZ010			0	(0.0)	
CZ020			0	(0.0)	
CZ031	0		0	(0.0)	
CZ031		(0.0)	0	(0.0)	
CZ041		(0.0)	0	(0.0)	
CZ041	0	(0.0)	0	(0.0)	
CZ042 CZ051	0	(0.0)	0	(0.0)	
CZ052	0	(0.0)	0	(0.0)	
CZ053	0		0	(0.0)	
CZ063	0	(0.0)	0	(0.0)	
CZ064	0	(0.0)	0	(0.0)	
CZ071		(0.0)		(0.0)	
	J	. 5.0,	J	,	

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.12	TO WHAT CATCHE GO ICHOHST ATTACKS	anı	ct public	SCHIIIICH SUITOUI	umg	minigrat
CZ072	0	(0.0)	0	(0.0)
CZ080	0	(0.0)	0	(0.0)
DE1	0	(0.0)	0	(0.0)
DE2	0	(0.0)) 0	(0.0)
DE3	0	(0.0)		(0.0)
DE4	0	(0.0)		(0.0)
DE5	0	(0.0)		(0.0)
DE6	0	(0.0)		(0.0)
DE7	0	(0.0)		(0.0)
DE8	0	(0.0)		(0.0)
DE9	0	(0.0)		(0.0)
DEA	0	(0.0)		(0.0)
DEB	0	(0.0)		(0.0)
DEC	0	(0.0)		(0.0)
DED	0	(0.0)		(0.0)
DEE	0	(0.0)		(0.0)
DEF	0	(0.0)		(0.0)
DEG	0	(0.0)		(0.0)
EE001	0	(0.0)		(0.0)
EE004	0	(0.0)		(0.0)
EE006	0	(0.0)		(0.0)
EE007	0	(0.0)		(0.0)
EE008	0	(0.0)		(0.0)
ES11	0	(0.0)		(0.0)
		((
ES12	0		0.0)			0.0)
ES13 ES21	0	(0.0)		(0.0)
ES22		(0.0)		(0.0)
	0		0.0)			0.0)
ES23	0	(0.0)		(0.0)
ES24	0	(0.0)		(0.0)
ES30	0	(0.0)	,	(0.0)
ES41	0	(0.0)		(0.0)
ES42	0	(0.0)		(0.0)
ES43	0	(0.0)		(0.0)
ES51	0	(0.0)		(0.0)
ES52	0	(0.0)		(0.0)
ES53	0	(0.0)		(0.0)
ES61	0	(0.0)		(0.0)
ES62	0	(0.0)		(0.0)
ES63	0	(0.0)		(0.0)
ES70	0	(0.0		(0.0)
FI193	0	(0.0)		(0.0)
FI194	0	(0.0)		(0.0)
FI195	0	(0.0)		(0.0)
FI196	0	(0.0)		(0.0)
FI197	0	(0.0)		(0.0)
FI1B1	0	(0.0)		(0.0)
FI1C1	0	(0.0)		(0.0)
FI1C2	0	(0.0)		(0.0)
FI1C3	0	(0.0)		(0.0)
FI1C4	0	(0.0)		(0.0)
FI1C5	0	(0.0)		(0.0)
FI1D1	0	(0.0)	0	(0.0)
FI1D2	0	(0.0)	0	(0.0)

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:12	To what extent do terrorist attacks	affe	ct public sentim	ent surroundin	g immigrat
FI1D3	0	(0.0)	0 (0.0)
FI1D4	0	(0.0)	0 (0.0)
FI1D5	0	(0.0)	0 (0.0)
FI1D6	0	(0.0)	0 (0.0)
FI1D7	0	(0.0)	0 (0.0)
FI200	0	(0.0)	0 (0.0)
FR10	0	(0.0)	0 (0.0)
FRB0	0	(0.0)	0 (0.0)
FRC1	0	(0.0)	0 (0.0)
FRC2	0	(0.0)	0 (0.0)
FRD1	0	(0.0)	0 (0.0)
FRD2	0	(0.0)	0 (0.0)
FRE1	0	(0.0)	0 (0.0)
FRE2	0	(0.0)	0 (0.0)
FRF1	0	(0.0)	0 (0.0)
FRF2	0	(0.0)	0 (0.0)
FRF3	0	(0.0)	0 (0.0)
FRG0	0	(0.0)	0 (0.0)
FRH0	0	(0.0)	0 (0.0)
FRI1	0	(0.0)	0 (0.0)
FRI2	0	(0.0)	0 (0.0)
FRI3	0	(0.0)	0 (0.0)
FRJ1	0	(0.0)	0 (0.0)
FRJ2	0	(0.0)	0 (0.0)
FRK1	0	(0.0)	0 (0.0)
FRK2	0	(0.0)	0 (0.0)
FRL0	0	(0.0)	0 (0.0)
HU101	0	(0.0)	0 (0.0)
HU102	0	(0.0)	0 (0.0)
HU211	0	(0.0)	0 (0.0)
HU212		(0.0)	0 (0.0)
HU213	0	(0.0)	0 (0.0)
HU221	0	(0.0)	0 (0.0)
HU222	0	(0.0)	0 (0.0)
HU223	0	(0.0)	0 (0.0)
HU231	0	(0.0)	0 (0.0)
HU232	0	(0.0)	0 (0.0)
HU233	0	(0.0)	0 (0.0)
HU311	0	(0.0)	0 (0.0)
HU312	0	(0.0)	0 (0.0)
HU313	0	(0.0)	0 (0.0)
		(
HU321	0	(0.0)	0 (0 (0.0) 0.0)
HU322		(0.0)		
HU323	0	(0.0)	0 (0.0)
HU331			0.0)	0 (0.0)
HU332	0	(0.0)	0 (0.0)
HU333	0	(0.0)	0 (0.0)
IE011	0	(0.0)	0 (0.0)
IE012	0	(0.0)	0 (0.0)
IE013	0	(0.0)	0 (0.0)
IE021	0	(0.0)	0 (0.0)
IE022	0	(0.0)	0 (0.0)
IE023	0	(0.0)	0 (0.0)
IE024	0	(0.0)	0 (0.0)

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.12	TO WHAT CATCHE GO ICHOHST ATTACKS	ance	a public schallich	t surrounding	minigrat
IE025	0	(0.0)	0 (0.0)
IL	0	(0.0)	0 (0.0)
IS001	0	(0.0)	0 (0.0)
IS002	0	(0.0)	0 (0.0)
ITC1	0	(0.0)	0 (0.0)
ITC2	0	(0.0)	0 (0.0)
ITC3	0	(0.0)	0 (0.0)
ITC4	0	(0.0)	0 (0.0)
ITF1	0	(0.0)	0 (0.0)
ITF3	0	(0.0)	0 (0.0)
ITF4	0	(0.0)	0 (0.0)
ITF5	0	(0.0)	0 (0.0)
ITF6	0	(0.0)	0 (0.0)
ITG1	0	(0.0)	0 (0.0)
ITG2	0	(0.0)	0 (0.0)
ITH1	0	(0.0)	0 (0.0)
ITH2	0	(0.0)	0 (0.0)
ITH3	0	(0.0)	0 (0.0)
ITH4	0	(0.0)	0 (
		(0.0)
ITH5	0		0.0)	0 (0.0)
ITI1	0	(0.0)	0 (0.0)
ITI2	0	(0.0)	0 (0.0)
ITI3	0	(0.0)	0 (0.0)
ITI4	0	(0.0)	0 (0.0)
LT001	0	(0.0)	0 (0.0)
LT002	0	(0.0)	0 (0.0)
LT003	0	(0.0)	0 (0.0)
LT004	0	(0.0)	0 (0.0)
LT005	0	(0.0)	0 (0.0)
LT006	0	(0.0)	0 (0.0)
LT007	0	(0.0)	0 (0.0)
LT008	0	(0.0)	0 (0.0)
LT009	0	(0.0)	0 (0.0)
LT00A	0	(0.0)	0 (0.0)
NL11	0	(0.0)	0 (0.0)
NL12	0	(0.0)	0 (0.0)
NL13	0	(0.0)	0 (0.0)
NL21	0	(0.0)	0 (0.0)
NL22	0	(0.0)	0 (0.0)
NL23	0	(0.0)	0 (0.0)
NL31	0	(0.0)	0 (0.0)
NL32	0	(0.0)	0 (0.0)
NL33	0	(0.0)	0 (0.0)
NL34	0	(0.0)	0 (0.0)
NL41	0	(0.0)	0 (0.0)
NL42	0	(0.0)	0 (0.0)
N001	0	(0.0)	0 (0.0)
N002	0	(0.0)	0 (0.0)
N003	0	(0.0)	0 (0.0)
N004	0	(0.0)	0 (0.0)
N005	0	(0.0)	0 (0.0)
N006	0	(0.0)	0 (0.0)
N007	0	(0.0)	0 (0.0)
PL11	0	(0.0)	0 (0.0)
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PL12	0	(0.0)	0	(0.0)
PL21	0	(0.0)	0	(0.0)
PL22	0	(0.0)	0	(0.0)
PL31	0	(0.0)	0	(0.0)
PL32	0	(0.0)	0	(0.0)
PL33	0	(0.0)	0	(0.0)
PL34	0	(0.0)	0	(0.0)
PL41	0	(0.0)	0	(0.0)
PL42	0	(0.0)	0	(0.0)
PL43	0	(0.0)	0	(0.0)
PL51	0	(0.0)	0	(0.0)
PL52	0	(0.0)	0	(0.0)
PL61	0	(0.0)	0	(0.0)
PL62	0	(0.0)	0	(0.0)
PL63	0	(0.0)	0	(0.0)
PT11	0	(0.0)	0	(0.0)
PT15	0	(0.0)	0	(0.0)
PT16	0	(0.0)	0	(0.0)
PT17	0	(0.0)	0	(0.0)
PT18	0	(0.0)	0	(0.0)
RU11	0	(0.0)	0	(0.0)
RU12	0	(0.0)	0	(0.0)
RU13	0	(0.0)	0	(0.0)
RU14	0	(0.0)	0	(0.0)
RU15	0	(0.0)	0	(0.0)
RU16	0	(0.0)	0	(0.0)
RU17	0	(0.0)	0	(0.0)
RU18	0	(0.0)	0	(0.0)
SE110	1374	(18.9)	383	(19.7)
SE121	177	(2.4)	49	(2.5)
SE122	217	(3.0)	64	(3.3)
SE123	399	(5.5)		(5.3)
SE124				103		
	233	(3.2)	53	(2.7)
SE125	180 109	(2.5)	50	(2.6)
SE211 SE212		(1.5)	30	(1.5) 0.8)
	60		0.8)	15	(
SE213	86	(1.2)	26	(1.3)
SE214	964	(13.2)	256	(13.1)
SE221	191	(2.6)	52	(2.7)
SE224	1200	(16.5)	324	(16.6)
SE231	202	(2.8)	51	(2.6)
SE232	273	(3.7)	66	(3.4)
SE311	141	(1.9)	40	(2.1)
SE312	236	(3.2)	67	(3.4)
SE313	268	(3.7)	69	(3.5)
SE321	269	(3.7)	76	(3.9)
SE322	190	(2.6)	45	(2.3)
SE331	298	(4.1)	75	(3.9)
SE332	216	(3.0)	53	(2.7)
SI011	0	(0.0)	0	(0.0)
SI012	0	(0.0)	0	(0.0)
SI013	0	(0.0)	0	(0.0)
SI014	0	(0.0)	0	(0.0)
SI015	0	(0.0)	0	(0.0)

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SI016	0 (0.0)	0 (0.0)
SI017	0 (0.0)	0 (0.0)
SI018	0 (0.0)	0 (0.0)
SI021	0 (0.0)	0 (0.0)
SI022	0 (0.0)	0 (0.0)
SI023	0 (0.0)	0 (0.0)
SI024	0 (0.0)	0 (0.0)
UKC	0 (0.0)	0 (0.0)
UKD	0 (0.0)	0 (0.0)
UKE	0 (0.0)	0 (0.0)
UKF	0 (0.0)	0 (0.0)
UKG	0 (0.0)	0 (0.0)
UKH	0 (0.0)	0 (0.0)
UKI	0 (0.0)	0 (0.0)
UKJ	0 (0.0)	0 (0.0)
UKK	0 (0.0)	0 (0.0)
UKL	0 (0.0)	0 (0.0)
UKM	0 (0.0)	0 (0.0)
UKN	0 (0.0)	0 (0.0)

```
kable_table <- kable(table_one_print) #to copy to word
#Balance shows very negligent differences between pre- and post- attack data between a</pre>
```

Another balance test

This chunks output is in the thesis Annex

```
# Rename target variables
swedish_data <- swedish_data %>%
  mutate(
    perception_immigrants = imdfetn,
    perception_refugees = gvrfgap
)

# Visualize balance with cobalt package
bal.tab <- bal.tab(treatment ~ perception_immigrants + perception_refugees + nwspol +</pre>
```

Note: `s.d.denom` not specified; assuming "pooled".

```
#Confirms previous results of a well balanced control and treatment group where there

#Extract for Word document

# Extract the balance table as a data frame with the variable names intact
bal.tab_df <- as.data.frame(bal.tab$Balance)
bal.tab_df$Variable <- rownames(bal.tab$Balance) # Add the variable names as a new co
rownames(bal.tab_df) <- NULL # Remove row names to clean up the data frame
bal.tab_flex <- flextable(bal.tab_df)

# Add a title to the flextable
bal.tab_flex <- add_header_lines(bal.tab_flex, values = "Balance Measures for Treatmen"

# Create a new Word document</pre>
```

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```
doc <- read_docx()

# Add the flextable to the document
doc <- body_add_flextable(doc, value = bal.tab_flex)

# Save the document, add to my Word document
print(doc, target = "bal_tab_output.docx")</pre>
```

Constructing the models

```
# Estimation of treatment effects using regression models
model1 <- lm(perception_immigrants ~ treatment + agea + region + time_centered, data =
model2 <- lm(perception_refugees ~ treatment + agea + region + time_centered, data = s

swedish_data <- swedish_data %>%
    mutate(
        combination_value = (perception_immigrants+perception_refugees)
    )

model3 <- lm(combination_value ~ treatment + agea + region + time_centered, data = swe

# Summary of the models
summary(model1)</pre>
```

```
Call:
```

```
lm(formula = perception_immigrants ~ treatment + agea + region +
    time_centered, data = swedish_data)
```

Residuals:

```
Min 10 Median 30 Max -1.0851 -0.6229 0.1599 0.3276 2.3344
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              1.350e+00 3.001e-02 44.989 < 2e-16 ***
treatmentTRUE -2.467e-02 3.383e-02 -0.729 0.46587
              5.615e-03 4.076e-04 13.775 < 2e-16 ***
agea
regionSE121
              1.415e-01 4.437e-02 3.189 0.00143 **
regionSE122
              1.981e-01 4.036e-02
                                    4.909 9.33e-07 ***
regionSE123
              1.257e-02 3.181e-02
                                    0.395 0.69273
regionSE124
              1.225e-01 4.004e-02
                                    3.060 0.00222 **
              2.336e-02 4.416e-02
                                    0.529 0.59686
regionSE125
regionSE211
              9.049e-02 5.537e-02
                                    1.634 0.10222
             -4.256e-01 7.415e-02 -5.741 9.73e-09 ***
regionSE212
regionSE213
             -1.322e-02 6.127e-02 -0.216 0.82918
regionSE214
              6.581e-02 2.340e-02
                                    2.812 0.00493 **
regionSE221
              3.124e-01 4.298e-02
                                    7.269 3.91e-13 ***
              1.829e-01 2.198e-02
                                    8.319 < 2e-16 ***
regionSE224
                                    1.650 0.09897 .
regionSE231
              6.974e-02 4.227e-02
regionSE232
             -5.980e-02 3.726e-02 -1.605 0.10854
             -2.081e-01 4.902e-02 -4.246 2.20e-05 ***
regionSE311
```

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```
regionSE312
              3.342e-01 3.908e-02
                                    8.553 < 2e-16 ***
regionSE313
              9.791e-02 3.735e-02
                                    2.622 0.00877 **
regionSE321
              4.404e-02 3.709e-02
                                    1.187 0.23515
regionSE322
              2.385e-01 4.363e-02
                                    5.466 4.72e-08 ***
regionSE331
             -8.179e-02 3.580e-02 -2.285 0.02236 *
regionSE332
             -9.894e-02 4.112e-02 -2.406 0.01615 *
time_centered 5.898e-05 1.077e-04
                                    0.548 0.58375
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6279 on 9206 degrees of freedom Multiple R-squared: 0.0542, Adjusted R-squared: 0.05183 F-statistic: 22.94 on 23 and 9206 DF, p-value: < 2.2e-16

The treatment effect is slightly negative but not statistically significant, indicat summary (model2)

Call:

lm(formula = perception refugees ~ treatment + agea + region + time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.03182 -0.63448 -0.06979 0.57249 2.61217

Coefficients:

Estimate Std. Error t value Pr(>|t|) (Intercept) 2.4724607 0.0445435 55.507 < 2e-16 *** treatmentTRUE 0.0146406 0.0502254 0.291 0.770677 -0.0009541 0.0006051 -1.577 0.114894 agea regionSE121 -0.0106961 0.0658691 -0.162 0.871007 8.982 < 2e-16 *** regionSE122 0.5381656 0.0599157 regionSE123 0.3149258 0.0472211 6.669 2.72e-11 *** regionSE124 0.4948316 0.0594385 8.325 < 2e-16 *** regionSE125 regionSE211 -0.1874195 0.0821911 -2.280 0.022613 * $0.1100695 - 2.370 \ 0.017789 *$ regionSE212 -0.2609103 0.0909534 -0.133 0.894501 regionSE213 -0.0120618 regionSE214 0.2623258 0.0347414 7.551 4.74e-14 *** regionSE221 0.7164059 0.0637985 11.229 < 2e-16 *** 0.1708757 0.0326335 5.236 1.68e-07 *** regionSE224 regionSE231 0.1455680 0.0627462 2.320 0.020365 * regionSE232 -0.3122590 0.0553149 -5.645 1.70e-08 *** regionSE311 -0.0801198 0.0727727 -1.101 0.270943 9.018 < 2e-16 *** regionSE312 0.5230951 0.0580078 regionSE313 0.3037389 0.0554441 5.478 4.41e-08 *** regionSE321 0.0517000 0.0550618 0.939 0.347784 0.0647650 9.333 < 2e-16 *** regionSE322 0.6044283 regionSE331 0.1655577 0.0531484 3.115 0.001845 ** regionSE332 -0.0910070 0.0610452 -1.491 0.136045 time_centered -0.0001024 0.0001598 -0.641 0.521537

```
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.9321 on 9206 degrees of freedom Multiple R-squared: 0.05892, Adjusted R-squared: 0.05657 F-statistic: 25.06 on 23 and 9206 DF, p-value: < 2.2e-16

#The treatment effect is not statistically significant, indicating no significant impa summary(model3)

Call:

lm(formula = combination_value ~ treatment + agea + region +
 time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -3.0008 -1.0629 -0.1043 0.8770 4.2475

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              3.822e+00 6.456e-02 59.206 < 2e-16 ***
treatmentTRUE -1.003e-02 7.280e-02 -0.138 0.89039
              4.661e-03 8.770e-04 5.314 1.09e-07 ***
agea
regionSE121
              1.308e-01 9.547e-02 1.370 0.17071
regionSE122
              7.363e-01 8.684e-02
                                   8.478 < 2e-16 ***
             3.275e-01 6.844e-02 4.785 1.74e-06 ***
regionSE123
regionSE124 6.174e-01 8.615e-02 7.166 8.31e-13 ***
             -2.173e-01 9.500e-02 -2.287 0.02221 *
regionSE125
             -9.693e-02 1.191e-01 -0.814 0.41585
regionSE211
regionSE212
             -6.866e-01 1.595e-01 -4.304 1.70e-05 ***
             -2.528e-02 1.318e-01 -0.192 0.84792
regionSE213
regionSE214
              3.281e-01 5.035e-02 6.517 7.57e-11 ***
              1.029e+00 9.247e-02 11.126 < 2e-16 ***
regionSE221
regionSE224
              3.538e-01 4.730e-02 7.479 8.16e-14 ***
regionSE231
              2.153e-01 9.094e-02
                                   2.368 0.01793 *
             -3.721e-01 8.017e-02 -4.641 3.52e-06 ***
regionSE232
regionSE311
            -2.883e-01 1.055e-01 -2.733 0.00629 **
             8.573e-01 8.408e-02 10.197 < 2e-16 ***
regionSE312
regionSE313
             4.017e-01 8.036e-02 4.998 5.90e-07 ***
regionSE321
              9.574e-02 7.981e-02
                                   1.200 0.23032
regionSE322
              8.429e-01 9.387e-02
                                   8.979 < 2e-16 ***
              8.376e-02 7.703e-02
                                   1.087 0.27690
regionSE331
             -1.899e-01 8.848e-02 -2.147 0.03183 *
regionSE332
time_centered -4.345e-05 2.316e-04 -0.188 0.85120
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

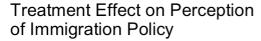
Residual standard error: 1.351 on 9206 degrees of freedom Multiple R-squared: 0.05743, Adjusted R-squared: 0.05508 F-statistic: 24.39 on 23 and 9206 DF, p-value: < 2.2e-16

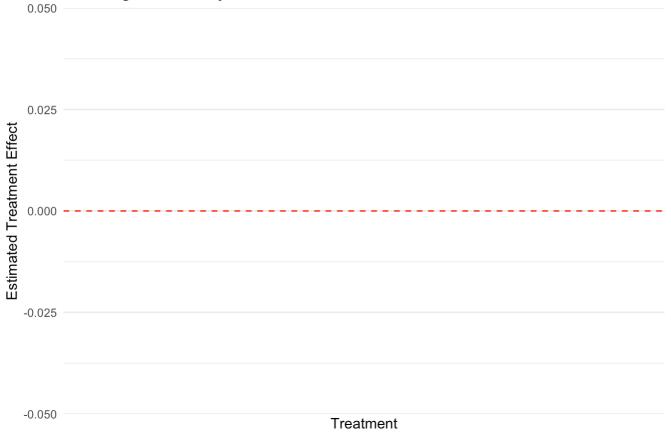
#The treatment effect is not statistically significant, indicating no significant impa

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```
#Visualizations of the models
# Tidy up the model summaries to extract coefficients and confidence intervals
model1 tidy <- tidy(model1, conf.int = TRUE)</pre>
model2 tidy <- tidy(model2, conf.int = TRUE)</pre>
model3_tidy <- tidy(model3, conf.int = TRUE)</pre>
# Filter to only include the treatment effect for each model
model1_treatment <- model1_tidy %>% filter(term == "treatment")
model2 treatment <- model2 tidy %>% filter(term == "treatment")
model3_treatment <- model3_tidy %>% filter(term == "treatment")
# Plot for Model 1
plot_model1 <- ggplot(model1_treatment, aes(x = term, y = estimate, ymin = conf.low, y
  geom_pointrange(color = "blue") +
  geom_hline(yintercept = 0, linetype = "dashed", color = "red") +
  labs(title = "Treatment Effect on Perception\nof Immigration Policy",
       x = "Treatment",
       y = "Estimated Treatment Effect") +
  theme minimal()
# Plot for Model 2
plot_model2 <- ggplot(model2_treatment, aes(x = term, y = estimate, ymin = conf.low, y
  geom_pointrange(color = "green") +
  geom_hline(yintercept = 0, linetype = "dashed", color = "red") +
  labs(title = "Treatment Effect on Perception\nof Refugee Policy",
       x = "Treatment",
       y = "Estimated Treatment Effect") +
  theme minimal()
# Plot for Model 3
plot_model3 <- ggplot(model3_treatment, aes(x = term, y = estimate, ymin = conf.low, y</pre>
  geom_pointrange(color = "purple") +
  geom_hline(yintercept = 0, linetype = "dashed", color = "red") +
  labs(title = "Treatment Effect on Combined Perception\nof Immigration and Refugee Po
       x = "Treatment",
       y = "Estimated Treatment Effect") +
  theme_minimal()
# Print the plots
print(plot model1)
```

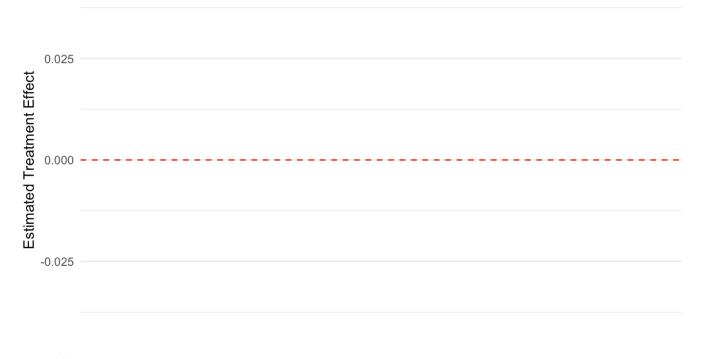
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print(plot_model2)

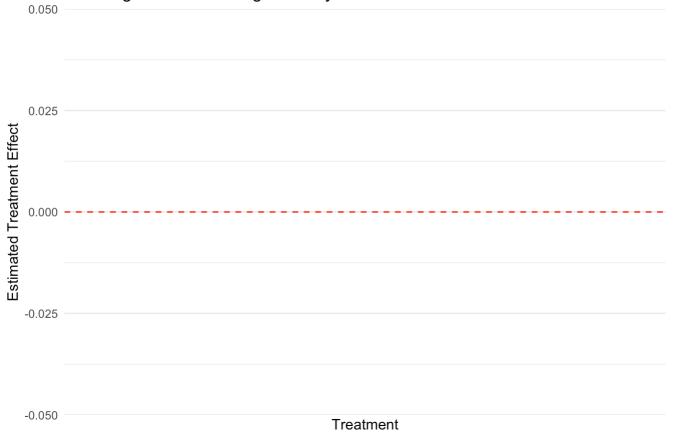




-0.050 Treatment

```
print(plot_model3)
```

```
Treatment Effect on Combined Perception of Immigration and Refugee Policy
```



```
#confirm the fact that there is no significant difference between treatment and contro
# Confirm results with a t-test
t.test(perception_immigrants ~ treatment, data = swedish_data)
```

Welch Two Sample t-test

```
#t-value: -0.21221, p-value: 0.8321, indicating that there is no significant differenc
t.test(perception_refugees ~ treatment, data = swedish_data)
```

Welch Two Sample t-test

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#t-value: 0.69736, p-value: 0.4856, also indicating that there is no significant diffe

Robustness checks

```
# Robustness checks
#Multicollinearity checks
vif(model1)
```

```
GVIF Df GVIF^(1/(2*Df))
treatment 4.461018 1 2.112112
agea 1.036503 1 1.018088
region 1.034558 20 1.000850
time_centered 4.455395 1 2.110781
```

```
vif(model2)
```

```
GVIF Df GVIF^(1/(2*Df))
treatment 4.461018 1 2.112112
agea 1.036503 1 1.018088
region 1.034558 20 1.000850
time_centered 4.455395 1 2.110781
```

vif(model3)

```
GVIF Df GVIF^(1/(2*Df))
treatment 4.461018 1 2.112112
agea 1.036503 1 1.018088
region 1.034558 20 1.000850
time_centered 4.455395 1 2.110781
```

```
#Overall no issues of multicollinearity between variables across all models

#Alternative Model Specifications
# Systematically testing all subsets of the 4 variables on all 3 models

#Models with only 1 variable
# Model 1: Only treatment
model1_ <- lm(perception_immigrants ~ treatment, data = swedish_data)
model2_ <- lm(perception_refugees ~ treatment, data = swedish_data)</pre>
```

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```
model3_ <- lm(combination_value ~ treatment, data = swedish_data)</pre>
# Print summaries
 summary(model1 )
Call:
lm(formula = perception immigrants \sim treatment, data = swedish data)
Residuals:
    Min
             10 Median
                             30
                                    Max
-0.7237 -0.7202 0.2798 0.2798 2.2798
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)
              1.720170
                         0.007556 227.657
                                            <2e-16 ***
treatmentTRUE 0.003507
                         0.016452
                                    0.213
                                             0.831
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.6448 on 9228 degrees of freedom
Multiple R-squared: 4.925e-06, Adjusted R-squared: -0.0001034
F-statistic: 0.04545 on 1 and 9228 DF, p-value: 0.8312
 summary(model2_)
Call:
lm(formula = perception_refugees ~ treatment, data = swedish_data)
Residuals:
             1Q Median
                             30
                                    Max
-1.5938 -0.5938 0.4062 0.4062 2.4232
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
               2.59385
                          0.01124 230.674
(Intercept)
                                            <2e-16 ***
treatmentTRUE -0.01706
                          0.02448 - 0.697
                                             0.486
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.9596 on 9228 degrees of freedom
Multiple R-squared: 5.264e-05, Adjusted R-squared: -5.572e-05
F-statistic: 0.4858 on 1 and 9228 DF, p-value: 0.4858
 summary(model3_)
Call:
lm(formula = combination_value ~ treatment, data = swedish_data)
Residuals:
   Min
           10 Median
                         30
                               Max
```

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-2.314 -1.314 -0.314 0.686 4.699

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```
agea -0.0015601 0.0006117 -2.55 0.0108 *
```

```
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.9593 on 9228 degrees of freedom Multiple R-squared: 0.0007043, Adjusted R-squared: 0.000596

F-statistic: 6.504 on 1 and 9228 DF, p-value: 0.01078

```
summary(model6)
```

Call:

lm(formula = combination_value ~ agea, data = swedish_data)

Residuals:

```
Min 10 Median 30 Max -2.4317 -1.2523 -0.2679 0.7087 4.7204
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 4.0964156  0.0508682  80.530  < 2e-16 ***
agea        0.0038981  0.0008853  4.403  1.08e-05 ***
---
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 1.388 on 9228 degrees of freedom Multiple R-squared: 0.002096, Adjusted R-squared: 0.001988 F-statistic: 19.39 on 1 and 9228 DF, p-value: 1.08e-05

```
# Model 3: Only region
model7 <- lm(perception_immigrants ~ region, data = swedish_data)
model8 <- lm(perception_refugees ~ region, data = swedish_data)
model9 <- lm(combination_value ~ region, data = swedish_data)

# Print summaries
summary(model7)</pre>
```

Call:

lm(formula = perception_immigrants ~ region, data = swedish_data)

Residuals:

```
Min 10 Median 30 Max -1.0000 -0.6488 0.1739 0.3512 2.4248
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|) (Intercept) 1.648833 0.015130 108.978 < 2e-16 *** regionSE121 0.138777 0.044817 3.097 0.00196 ** regionSE122 0.180348 0.040746 4.426 9.70e-06 *** regionSE123 -0.007399 0.032096 -0.231 0.81769 regionSE124 0.116901 0.040438 2.891 0.00385 ** regionSE125 0.068558 0.044471 1.542 0.12319
```

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```
regionSE211 0.120951
                      0.055879
                                 2.165
                                       0.03045 *
                      0.074777 -4.932 8.26e-07 ***
regionSE212 -0.368833
regionSE213 0.029738
                      0.061807
                                 0.481 0.63042
regionSE214 0.068380
                      0.023635
                                 2.893 0.00382 **
regionSE221 0.305899
                      0.043406 7.047 1.95e-12 ***
                      0.022200
regionSE224 0.177282
                                 7.986 1.56e-15 ***
                      0.042646 1.005 0.31484
regionSE231 0.042866
regionSE232 -0.073612
                      0.037621 -1.957 0.05042 .
regionSE311 -0.195795
                      0.049508 -3.955 7.72e-05 ***
regionSE312 0.351167
                      0.039450
                                 8.901 < 2e-16 ***
                                 2.859 0.00425 **
regionSE313 0.107843
                      0.037715
regionSE321 0.084500
                      0.037346 2.263 0.02368 *
regionSE322 0.249039
                      0.044050
                                 5.654 1.62e-08 ***
                      0.036155 - 2.522 0.01168 *
regionSE331 -0.091192
regionSE332 -0.109800
                      0.041522 -2.644 0.00820 **
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.6342 on 9209 degrees of freedom Multiple R-squared: 0.0347, Adjusted R-squared: 0.0326 F-statistic: 16.55 on 20 and 9209 DF, p-value: < 2.2e-16

summary(model8)

Call:

lm(formula = perception_refugees ~ region, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.03404 -0.60236 -0.03404 0.56972 2.58929

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 2.430279
                       0.022236 109.293 < 2e-16 ***
regionSE121 -0.009925
                       0.065867 -0.151 0.880232
regionSE122 0.541251
                       0.059884
                                 9.038 < 2e-16 ***
regionSE123 0.318725
                       0.047170
                                 6.757 1.50e-11 ***
                                 8.351 < 2e-16 ***
regionSE124 0.496295
                       0.059431
regionSE125 -0.247670
                       0.065358 -3.789 0.000152 ***
regionSE211 -0.192869
                       0.082125 -2.348 \ 0.018871 *
regionSE212 -0.270279
                       0.109900 - 2.459 0.013938 *
                       0.090836 -0.215 0.829473
regionSE213 -0.019565
regionSE214 0.262344
                       0.034735
                                7.553 4.67e-14 ***
                       0.063793 11.253 < 2e-16 ***
regionSE221 0.717869
                                  5.274 1.36e-07 ***
regionSE224 0.172083
                       0.032627
regionSE231 0.150749
                       0.062676
                                  2.405 0.016183 *
                       0.055292 -5.595 2.27e-08 ***
regionSE232 -0.309335
                       0.072761 -1.130 0.258551
regionSE311 -0.082213
regionSE312 0.520216
                       0.057980
                                8.972 < 2e-16 ***
regionSE313 0.302659
                       0.055429
                                  5.460 4.88e-08 ***
                                  0.821 0.411449
regionSE321 0.045083
                       0.054887
regionSE322 0.603764
                       0.064740
                                  9.326 < 2e-16 ***
```

```
To what extent do terrorist attacks affect public sentiment surrounding immigration and refugee policy? A case study of the Stockholm terror...
regionSE331 0.167576
                        0.053137
                                   3.154 0.001618 **
regionSE332 -0.088271 0.061025 -1.446 0.148076
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.9321 on 9209 degrees of freedom
Multiple R-squared: 0.05859, Adjusted R-squared: 0.05655
F-statistic: 28.66 on 20 and 9209 DF, p-value: < 2.2e-16
 summary (model9)
Call:
lm(formula = combination_value ~ region, data = swedish_data)
Residuals:
    Min
             10 Median
                             30
                                    Max
-2.9505 -1.0791 -0.0791 0.9209 4.3038
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 4.07911 0.03227 126.393 < 2e-16 ***
regionSE121 0.12885
                        0.09560
                                  1.348 0.17774
regionSE122 0.72160
                        0.08691 8.302 < 2e-16 ***
                        0.06846 4.547 5.50e-06 ***
regionSE123 0.31133
regionSE124 0.61320
                        0.08626 7.109 1.26e-12 ***
regionSE125 -0.17911
                        0.09486 - 1.888 \ 0.05903
regionSE211 -0.07192
                        0.11919 -0.603 0.54628
                        0.15951 -4.007 6.20e-05 ***
regionSE212 -0.63911
regionSE213 0.01017
                        0.13184 0.077 0.93849
                        0.05041 6.560 5.66e-11 ***
regionSE214 0.33072
                        0.09259 11.057 < 2e-16 ***
regionSE221 1.02377
                        0.04735
                                 7.378 1.75e-13 ***
regionSE224 0.34937
regionSE231 0.19362
                        0.09097 2.128 0.03333 *
regionSE232 -0.38295
                        0.08025 -4.772 1.85e-06 ***
regionSE311 -0.27801
                        0.10560 -2.633 0.00849 **
regionSE312 0.87138
                        0.08415 10.355 < 2e-16 ***
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

0.08045

0.09396

0.07712

regionSE313 0.41050

regionSE321 0.12958 regionSE322 0.85280

regionSE331 0.07638

regionSE332 -0.19807

Residual standard error: 1.353 on 9209 degrees of freedom Multiple R-squared: 0.05451, Adjusted R-squared: 0.05246 F-statistic: 26.55 on 20 and 9209 DF, p-value: < 2.2e-16

```
# Model 4: Only time_centered
model10 <- lm(perception_immigrants ~ time_centered, data = swedish_data)</pre>
model11 <- lm(perception_refugees ~ time_centered, data = swedish_data)</pre>
model12 <- lm(combination_value ~ time_centered, data = swedish_data)</pre>
```

5.103 3.42e-07 ***

9.076 < 2e-16 ***

0.990 0.32199

0.07966 1.627 0.10384

 $0.08857 - 2.236 \ 0.02535 *$

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```
# Print summaries
summary(model10)
```

```
Call:
```

lm(formula = perception_immigrants ~ time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -0.7240 -0.7202 0.2786 0.2799 2.2803

Coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.722e+00 7.716e-03 223.126 <2e-16 ***
time_centered 9.210e-06 5.238e-05 0.176 0.86

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6448 on 9228 degrees of freedom Multiple R-squared: 3.351e-06, Adjusted R-squared: -0.000105

F-statistic: 0.03092 on 1 and 9228 DF, p-value: 0.8604

summary (model11)

Call:

lm(formula = perception_refugees ~ time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -1.6017 -0.5959 0.3993 0.4126 2.4349

Coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) 2.585e+00 1.148e-02 225.117 <2e-16 ***
time_centered -7.469e-05 7.794e-05 -0.958 0.338

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.9596 on 9228 degrees of freedom Multiple R-squared: 9.95e-05, Adjusted R-squared: -8.85e-06 F-statistic: 0.9183 on 1 and 9228 DF, p-value: 0.3379

summary (model12)

Call:

lm(formula = combination_value ~ time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.3212 -1.3076 -0.3090 0.6907 4.7066

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```
Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)
               4.306e+00
                         1.663e-02 258.96
                                              <2e-16 ***
time centered -6.548e-05 1.129e-04
                                               0.562
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.39 on 9228 degrees of freedom
Multiple R-squared: 3.646e-05, Adjusted R-squared: -7.19e-05
F-statistic: 0.3365 on 1 and 9228 DF, p-value: 0.5619
#None of these models is significant and the R-squared value is much lower than in the
#Models with only 2 varibales
# Model 5: treatment + agea
model13 <- lm(perception_immigrants ~ treatment + agea, data = swedish_data)</pre>
model14 <- lm(perception_refugees ~ treatment + agea, data = swedish_data)</pre>
model15 <- lm(combination value ~ treatment + agea, data = swedish data)
# Print summaries
 summary (model13)
Call:
lm(formula = perception_immigrants ~ treatment + agea, data = swedish_data)
Residuals:
    Min
             10 Median
                             30
                                    Max
-0.9133 -0.6563 0.2016 0.3164 2.3726
Coefficients:
```

Estimate Std. Error t value Pr(>|t|)

(Intercept) 1.4212414 0.0235188 60.430 <2e-16 ***

treatmentTRUE -0.0070711 0.0163136 -0.433 0.665

agea 0.0054667 0.0004078 13.407 <2e-16 ***

--
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6387 on 9227 degrees of freedom Multiple R-squared: 0.01911, Adjusted R-squared: 0.0189 F-statistic: 89.9 on 2 and 9227 DF, p-value: < 2.2e-16

summary(model14)

Call:

lm(formula = perception_refugees ~ treatment + agea, data = swedish_data)

Residuals:

Min 10 Median 30 Max -1.6458 -0.5995 0.3588 0.4298 2.4670

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```
Coefficients:
```

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              2.6782270 0.0353274 75.812
                                             <2e-16 ***
treatmentTRUE -0.0140780 0.0245046 -0.575
                                             0.5656
             -0.0015431 0.0006125 -2.519
                                             0.0118 *
agea
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.9593 on 9227 degrees of freedom
Multiple R-squared: 0.0007401, Adjusted R-squared: 0.0005235
F-statistic: 3.417 on 2 and 9227 DF, p-value: 0.03286
 summary(model15)
```

Call:

lm(formula = combination_value ~ treatment + agea, data = swedish_data)

Residuals:

Min 10 Median 30 -2.4369 -1.2564 -0.2643 0.7122 4.7373

Coefficients:

Estimate Std. Error t value Pr(>|t|) 4.0994684 0.0511269 80.182 < 2e-16 *** (Intercept) treatmentTRUE -0.0211490 0.0354637 -0.596 0.551 agea Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.388 on 9227 degrees of freedom Multiple R-squared: 0.002135, Adjusted R-squared: 0.001919 F-statistic: 9.87 on 2 and 9227 DF, p-value: 5.224e-05

```
# Model 6: treatment + region
model16 <- lm(perception_immigrants ~ treatment + region, data = swedish_data)</pre>
model17 <- lm(perception_refugees ~ treatment + region, data = swedish_data)</pre>
model18 <- lm(combination_value ~ treatment + region, data = swedish_data)</pre>
# Print summaries
summary(model16)
```

Call:

lm(formula = perception_immigrants ~ treatment + region, data = swedish_data)

Residuals:

Min 10 Median 30 Max -1.0017 -0.6484 0.1744 0.3516 2.4252

Coefficients:

Estimate Std. Error t value Pr(>|t|)

```
0.015537 106.094 < 2e-16 ***
(Intercept)
              1.648356
treatmentTRUE
              0.002189
                         0.016186
                                    0.135 0.89240
regionSE121
              0.138780
                         0.044820
                                    3.096 0.00196 **
regionSE122
              0.180327
                         0.040749
                                    4.425 9.74e-06 ***
regionSE123
             -0.007371
                         0.032098 -0.230 0.81838
              0.116973
                         0.040444
                                    2.892 0.00383 **
regionSE124
                                    1.542 0.12321
regionSE125
              0.068559
                         0.044473
regionSE211
              0.120956
                         0.055882
                                    2.164 0.03045 *
regionSE212
             -0.368794
                         0.074782 -4.932 8.30e-07 ***
regionSE213
              0.029707
                         0.061810
                                    0.481 0.63080
regionSE214
              0.068398
                         0.023636
                                    2.894 0.00382 **
regionSE221
              0.305908
                         0.043408
                                  7.047 1.96e-12 ***
                                    7.986 1.56e-15 ***
regionSE224
              0.177294
                         0.022201
regionSE231
              0.042902
                         0.042649
                                    1.006 0.31447
regionSE232
             -0.073561
                         0.037625 -1.955 0.05060 .
                         0.049511 -3.955 7.72e-05 ***
regionSE311
             -0.195801
regionSE312
              0.351160
                         0.039453
                                    8.901 < 2e-16 ***
regionSE313
                                    2.860 0.00425 **
              0.107872
                         0.037717
                                  2.262 0.02370 *
regionSE321
              0.084495
                         0.037348
regionSE322
              0.249097
                         0.044055
                                    5.654 1.61e-08 ***
regionSE331
             -0.091155
                         0.036158 - 2.521 \ 0.01172 *
regionSE332
             -0.109754
                         0.041526 -2.643 0.00823 **
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6342 on 9208 degrees of freedom Multiple R-squared: 0.0347, Adjusted R-squared: 0.0325 F-statistic: 15.76 on 21 and 9208 DF, p-value: < 2.2e-16

summary(model17)

Call:

lm(formula = perception_refugees ~ treatment + region, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.03701 -0.60565 -0.03701 0.56635 2.60117

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              2.433652
                          0.022834 106.582 < 2e-16 ***
treatmentTRUE -0.015473
                          0.023787
                                   -0.650 0.515405
regionSE121
             -0.009943
                         0.065870 -0.151 0.880018
regionSE122
              0.541403
                         0.059887
                                   9.040 < 2e-16 ***
                                    6.752 1.54e-11 ***
regionSE123
              0.318527
                          0.047173
                                     8.341 < 2e-16 ***
                          0.059438
regionSE124
              0.495789
regionSE125
             -0.247679
                          0.065360
                                   -3.789 0.000152 ***
                                   -2.349 0.018855 *
regionSE211
             -0.192902
                          0.082128
regionSE212
             -0.270557
                          0.109904
                                   -2.462 0.013844 *
regionSE213
             -0.019346
                         0.090840
                                   -0.213 0.831360
                                   7.549 4.82e-14 ***
regionSE214
              0.262218
                          0.034737
                                   11.252 < 2e-16 ***
regionSE221
              0.717807
                          0.063795
```

```
0.032628
                                    5.272 1.38e-07 ***
regionSE224
              0.172000
regionSE231
              0.150495
                         0.062679
                                    2.401 0.016368 *
regionSE232
             -0.309695
                         0.055296 -5.601 2.20e-08 ***
regionSE311
             -0.082166
                         0.072764 -1.129 0.258836
regionSE312
              0.520265
                         0.057982
                                   8.973 < 2e-16 ***
              0.302454
                         0.055432
                                    5.456 4.99e-08 ***
regionSE313
                                    0.822 0.411094
regionSE321
              0.045119
                         0.054889
regionSE322
              0.603354
                         0.064745
                                    9.319 < 2e-16 ***
regionSE331
                         0.053140
                                    3.149 0.001646 **
              0.167315
regionSE332
             -0.088596
                         0.061029 -1.452 0.146619
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.9321 on 9208 degrees of freedom Multiple R-squared: 0.05863, Adjusted R-squared: 0.05649 F-statistic: 27.31 on 21 and 9208 DF, p-value: < 2.2e-16

summary(model18)

Call:

lm(formula = combination value ~ treatment + region, data = swedish data)

Residuals:

Min 10 Median 30 Max -2.953 -1.082 -0.082 0.918 4.314

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
               4.08201
                          0.03314 123.172 < 2e-16 ***
                          0.03452 -0.385
treatmentTRUE -0.01328
                                            0.7004
regionSE121
               0.12884
                          0.09560
                                    1.348
                                            0.1778
regionSE122
               0.72173
                          0.08692
                                    8.303 < 2e-16 ***
regionSE123
               0.31116
                          0.06847
                                    4.545 5.57e-06 ***
regionSE124
               0.61276
                          0.08627
                                    7.103 1.31e-12 ***
regionSE125
             -0.17912
                          0.09486 - 1.888
                                            0.0590 .
regionSE211
             -0.07195
                          0.11920 -0.604
                                            0.5461
regionSE212
             -0.63935
                          0.15951 -4.008 6.17e-05 ***
                                            0.9374
regionSE213
               0.01036
                          0.13184
                                    0.079
regionSE214
               0.33062
                          0.05042
                                    6.558 5.76e-11 ***
regionSE221
               1.02372
                          0.09259 11.056 < 2e-16 ***
               0.34929
                          0.04736
                                    7.376 1.77e-13 ***
regionSE224
regionSE231
               0.19340
                          0.09097
                                    2.126
                                            0.0335 *
regionSE232
             -0.38326
                          0.08026 -4.775 1.82e-06 ***
regionSE311
             -0.27797
                          0.10561 - 2.632
                                            0.0085 **
regionSE312
               0.87142
                          0.08415 10.355 < 2e-16 ***
                                    5.100 3.46e-07 ***
regionSE313
               0.41033
                          0.08045
regionSE321
               0.12961
                          0.07967
                                    1.627
                                            0.1038
                          0.09397
                                    9.071 < 2e-16 ***
regionSE322
               0.85245
regionSE331
               0.07616
                          0.07713
                                    0.987
                                            0.3235
regionSE332
             -0.19835
                          0.08858 -2.239
                                            0.0252 *
```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
Residual standard error: 1.353 on 9208 degrees of freedom
Multiple R-squared: 0.05453, Adjusted R-squared: 0.05237
F-statistic: 25.29 on 21 and 9208 DF, p-value: < 2.2e-16

# Model 7: treatment + time_centered

model10 c- lm(perception immigrants of treatment + time_center)
```

```
# Model 7: treatment + time_centered
model19 <- lm(perception_immigrants ~ treatment + time_centered, data = swedish_data)
model20 <- lm(perception_refugees ~ treatment + time_centered, data = swedish_data)
model21 <- lm(combination_value ~ treatment + time_centered, data = swedish_data)

# Print summaries
summary(model19)</pre>
```

```
Call:
```

lm(formula = perception_immigrants ~ treatment + time_centered,
 data = swedish_data)

Residuals:

Min 1Q Median 3Q Max -0.7241 -0.7202 0.2796 0.2798 2.2801

Coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.720e+00 1.632e-02 105.382 <2e-16 ***
treatmentTRUE 4.269e-03 3.469e-02 0.123 0.902
time_centered -2.756e-06 1.104e-04 -0.025 0.980

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6449 on 9227 degrees of freedom Multiple R-squared: 4.992e-06, Adjusted R-squared: -0.0002118 F-statistic: 0.02303 on 2 and 9227 DF, p-value: 0.9772

summary(model20)

Call:

lm(formula = perception_refugees ~ treatment + time_centered,
 data = swedish_data)

Residuals:

Min 10 Median 30 Max -1.6052 -0.5959 0.3964 0.4148 2.4374

Coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) 2.5782062 0.0242861 106.160 <2e-16 ***
treatmentTRUE 0.0159575 0.0516176 0.309 0.757
time_centered -0.0001194 0.0001643 -0.727 0.467

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

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```
Residual standard error: 0.9596 on 9227 degrees of freedom Multiple R-squared: 0.0001099, Adjusted R-squared: -0.0001069
```

F-statistic: 0.5069 on 2 and 9227 DF, p-value: 0.6024

```
summary(model21)
```

```
Call:
```

lm(formula = combination_value ~ treatment + time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.3256 -1.3035 -0.3064 0.6933 4.7061

Coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) 4.2980155 0.0351733 122.195 <2e-16 ***
treatmentTRUE 0.0202267 0.0747571 0.271 0.787
time_centered -0.0001222 0.0002380 -0.513 0.608

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.39 on 9227 degrees of freedom

Multiple R-squared: 4.44e-05, Adjusted R-squared: -0.0001723

F-statistic: 0.2048 on 2 and 9227 DF, p-value: 0.8148

```
# Model 8: agea + region
model22 <- lm(perception_immigrants ~ agea + region, data = swedish_data)
model23 <- lm(perception_refugees ~ agea + region, data = swedish_data)
model24 <- lm(combination_value ~ agea + region, data = swedish_data)

# Print summaries
summary(model22)</pre>
```

Call:

lm(formula = perception_immigrants ~ agea + region, data = swedish_data)

Residuals:

Min 10 Median 30 Max -1.0791 -0.6255 0.1618 0.3283 2.3321

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.3415111 0.0268965 49.877 < 2e-16 ***
          0.0055971 0.0004069 13.756 < 2e-16 ***
agea
regionSE121 0.1413075 0.0443666 3.185 0.00145 **
                             4.902 9.63e-07 ***
regionSE122 0.1978384 0.0403561
regionSE123 0.0124774 0.0318053
                             0.392 0.69484
regionSE124 0.1227648 0.0400332
                              3.067 0.00217 **
regionSE125 0.0230952 0.0441469
                              0.523 0.60089
regionSE211 0.0907986 0.0553602
                              1.640 0.10101
```

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```
regionSE213 -0.0132056 0.0612640 -0.216 0.82934
regionSE214 0.0656755 0.0233975
                               2.807 0.00501 **
regionSE221 0.3122241 0.0429716
                               7.266 4.01e-13 ***
regionSE224 0.1827966 0.0219800
                               8.316 < 2e-16 ***
regionSE231 0.0695613 0.0422611
                               1.646 0.09980 .
regionSE232 -0.0597970 0.0372562 -1.605 0.10852
regionSE311 -0.2081541 0.0490180 -4.246 2.19e-05 ***
regionSE312 0.3342105 0.0390727
                               8.554 < 2e-16 ***
regionSE313 0.0977940 0.0373423
                               2.619 0.00884 **
regionSE321 0.0439610 0.0370875
                               1.185 0.23592
regionSE322 0.2382578 0.0436140
                               5.463 4.81e-08 ***
regionSE331 -0.0817899 0.0357981 -2.285 0.02235 *
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.6278 on 9208 degrees of freedom Multiple R-squared: 0.05414, Adjusted R-squared: 0.05198 F-statistic: 25.1 on 21 and 9208 DF, p-value: < 2.2e-16

summary(model23)

Call:

lm(formula = perception_refugees ~ agea + region, data = swedish_data)

Residuals:

Min 1Q Median 3Q Max -2.02144 -0.63100 -0.06164 0.57268 2.59565

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
            2.482826
                       0.039928 62.182 < 2e-16 ***
agea
           -0.000957
                       0.000604 - 1.584 0.113132
regionSE121 -0.010358
                       0.065863 -0.157 0.875044
regionSE122 0.538261
                       0.059909 8.985 < 2e-16 ***
regionSE123 0.315327
                       0.047215
                                  6.678 2.55e-11 ***
regionSE124 0.495292
                       0.059430
                                  8.334 < 2e-16 ***
                       0.065536 -3.661 0.000253 ***
regionSE125 -0.239897
regionSE211 -0.187713
                       0.082183 - 2.284 \ 0.022389 *
regionSE212 -0.260621
                       0.110060 - 2.368 \ 0.017905 *
regionSE213 -0.012222
                       0.090947 -0.134 0.893101
regionSE214 0.262806
                       0.034734
                                 7.566 4.21e-14 ***
regionSE221 0.716788
                       0.063792 11.236 < 2e-16 ***
regionSE224 0.171141
                       0.032629
                                  5.245 1.60e-07 ***
regionSE231 0.146184
                       0.062737
                                  2.330 0.019822 *
regionSE232 -0.311697
                       0.055307 -5.636 1.79e-08 ***
regionSE311 -0.080099
                       0.072768 -1.101 0.271033
                                  9.019 < 2e-16 ***
regionSE312 0.523115
                       0.058004
regionSE313 0.304377
                       0.055435
                                  5.491 4.11e-08 ***
regionSE321 0.052015
                       0.055057
                                  0.945 0.344811
                                  9.354 < 2e-16 ***
regionSE322 0.605607
                       0.064745
                                  3.123 0.001795 **
regionSE331 0.165969
                       0.053143
```

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```
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                      0.061031 -1.476 0.139940
regionSE332 -0.090090
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.932 on 9208 degrees of freedom
Multiple R-squared: 0.05885,
                              Adjusted R-squared: 0.0567
F-statistic: 27.42 on 21 and 9208 DF, p-value: < 2.2e-16
 summary (model24)
Call:
lm(formula = combination_value ~ agea + region, data = swedish_data)
Residuals:
    Min
            10 Median
                             30
                                    Max
-2.9930 -1.0703 -0.1034 0.8833 4.2270
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept) 3.8243366 0.0578704 66.085 < 2e-16 ***
agea
            0.0046401 0.0008754 5.300 1.18e-07 ***
regionSE121 0.1309500 0.0954588 1.372 0.17016
regionSE122 0.7360993 0.0868299 8.477 < 2e-16 ***
regionSE123 0.3278040 0.0684321 4.790 1.69e-06 ***
regionSE124 0.6180568 0.0861352 7.175 7.77e-13 ***
regionSE125 -0.2168017 0.0949861 -2.282 0.02249 *
regionSE211 -0.0969147 0.1191125 -0.814 0.41587
regionSE212 -0.6859406 0.1595160 -4.300 1.72e-05 ***
regionSE213 -0.0254276 0.1318151 -0.193 0.84704
regionSE214 0.3284819 0.0503419 6.525 7.16e-11 ***
regionSE221 1.0290119 0.0924574 11.130 < 2e-16 ***
                                   7.484 7.87e-14 ***
regionSE224 0.3539371 0.0472920
regionSE231 0.2157457 0.0909287
                                   2.373 0.01768 *
regionSE232 -0.3714940 0.0801602 -4.634 3.63e-06 ***
regionSE311 -0.2882534 0.1054667 -2.733 0.00629 **
regionSE312 0.8573259 0.0840685 10.198 < 2e-16 ***
regionSE313 0.4021710 0.0803455 5.006 5.67e-07 ***
```

```
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.351 on 9208 degrees of freedom
Multiple R-squared: 0.05739,
                              Adjusted R-squared: 0.05524
```

F-statistic: 26.7 on 21 and 9208 DF, p-value: < 2.2e-16

regionSE321 0.0959759 0.0797971 1.203 0.22910

regionSE322 0.8438649 0.0938395

regionSE331 0.0841788 0.0770228

```
# Model 9: agea + time_centered
model25 <- lm(perception_immigrants ~ agea + time_centered, data = swedish_data)</pre>
model26 <- lm(perception_refugees ~ agea + time_centered, data = swedish_data)</pre>
model27 <- lm(combination_value ~ agea + time_centered, data = swedish_data)</pre>
```

8.993 < 2e-16 ***

1.093 0.27446

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```
# Print summaries
summary(model25)
```

```
Call:
```

lm(formula = perception_immigrants ~ agea + time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -0.9127 -0.6580 0.2022 0.3167 2.3693

Coefficients:

Estimate Std. Error t value Pr(>|t|) (Intercept) 1.419e+00 2.380e-02 59.636 <2e-16 *** agea 5.460e-03 4.074e-04 13.402 <2e-16 *** time_centered -8.848e-06 5.189e-05 -0.171 0.865

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6387 on 9227 degrees of freedom Multiple R-squared: 0.0191, Adjusted R-squared: 0.01888 F-statistic: 89.82 on 2 and 9227 DF, p-value: < 2.2e-16

summary(model26)

Call:

lm(formula = perception_refugees ~ agea + time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -1.6522 -0.6005 0.3573 0.4307 2.4757

Coefficients:

Estimate Std. Error t value Pr(>|t|) (Intercept) 2.670e+00 3.575e-02 74.691 <2e-16 *** agea -1.546e-03 6.119e-04 -2.526 0.0115 * time_centered -6.958e-05 7.795e-05 -0.893 0.3721

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.9593 on 9227 degrees of freedom Multiple R-squared: 0.0007906, Adjusted R-squared: 0.000574

F-statistic: 3.65 on 2 and 9227 DF, p-value: 0.02602

summary(model27)

Call

lm(formula = combination_value ~ agea + time_centered, data = swedish_data)

Residuals:

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```
Min 10 Median 30 Max -2.4423 -1.2548 -0.2640 0.7118 4.7418
```

```
Coefficients:
```

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 4.090e+00 5.174e-02 79.042 <2e-16 ***
agea 3.914e-03 8.856e-04 4.419 1e-05 ***
time_centered -7.843e-05 1.128e-04 -0.695 0.487
---
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 1.388 on 9227 degrees of freedom Multiple R-squared: 0.002149, Adjusted R-squared: 0.001932 F-statistic: 9.934 on 2 and 9227 DF, p-value: 4.901e-05

```
# Model 10: region + time_centered
model28 <- lm(perception_immigrants ~ region + time_centered, data = swedish_data)
model29 <- lm(perception_refugees ~ region + time_centered, data = swedish_data)
model30 <- lm(combination_value ~ region + time_centered, data = swedish_data)
# Print summaries
summary(model28)</pre>
```

Call:

```
lm(formula = perception_immigrants ~ region + time_centered,
    data = swedish_data)
```

Residuals:

```
Min 10 Median 30 Max -1.0024 -0.6484 0.1744 0.3511 2.4257
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              1.649e+00 1.554e-02 106.157 < 2e-16 ***
regionSE121
              1.388e-01 4.482e-02
                                    3.097 0.00196 **
regionSE122
              1.803e-01 4.075e-02
                                    4.426 9.72e-06 ***
regionSE123
             -7.354e-03 3.210e-02 -0.229 0.81878
regionSE124
              1.170e-01 4.044e-02
                                    2.892 0.00383 **
regionSE125
              6.861e-02 4.447e-02
                                    1.543 0.12293
regionSE211
              1.209e-01 5.588e-02
                                    2.164 0.03049 *
             -3.688e-01 7.478e-02 -4.932 8.30e-07 ***
regionSE212
regionSE213
              2.971e-02 6.181e-02
                                    0.481 0.63077
regionSE214
              6.842e-02 2.364e-02
                                    2.895 0.00380 **
regionSE221
              3.059e-01 4.341e-02
                                    7.048 1.95e-12 ***
regionSE224
              1.773e-01 2.220e-02
                                    7.986 1.56e-15 ***
              4.293e-02 4.265e-02
                                    1.007 0.31416
regionSE231
regionSE232
             -7.354e-02 3.763e-02 -1.955 0.05066 .
             -1.958e-01 4.951e-02 -3.955 7.72e-05 ***
regionSE311
regionSE312
              3.512e-01 3.945e-02
                                    8.901 < 2e-16 ***
regionSE313
              1.079e-01 3.772e-02
                                    2.861 0.00424 **
              8.452e-02 3.735e-02
                                    2.263 0.02366 *
regionSE321
              2.492e-01 4.406e-02
regionSE322
                                    5.655 1.61e-08 ***
```

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```
regionSE331 -9.114e-02 3.616e-02 -2.521 0.01173 *
regionSE332 -1.097e-01 4.153e-02 -2.642 0.00826 **
time_centered 7.615e-06 5.154e-05 0.148 0.88255
---
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.6342 on 9208 degrees of freedom Multiple R-squared: 0.0347, Adjusted R-squared: 0.0325 F-statistic: 15.76 on 21 and 9208 DF, p-value: < 2.2e-16

```
summary(model29)
```

Call:

lm(formula = perception_refugees ~ region + time_centered, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.04231 -0.61144 -0.04234 0.56801 2.60749

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              2.426e+00 2.283e-02 106.241 < 2e-16 ***
regionSE121
             -1.015e-02 6.587e-02 -0.154 0.877546
regionSE122
              5.413e-01 5.989e-02
                                    9.039 < 2e-16 ***
              3.183e-01 4.717e-02 6.749 1.58e-11 ***
regionSE123
regionSE124
             4.957e-01 5.944e-02 8.340 < 2e-16 ***
regionSE125
             -2.481e-01 6.536e-02 -3.796 0.000148 ***
             -1.927e-01 8.213e-02 -2.346 0.018982 *
regionSE211
regionSE212
             -2.706e-01 1.099e-01 -2.462 0.013824 *
             -1.932e-02 9.084e-02 -0.213 0.831581
regionSE213
regionSE214
              2.620e-01 3.474e-02 7.541 5.10e-14 ***
              7.176e-01 6.380e-02 11.248 < 2e-16 ***
regionSE221
regionSE224
              1.719e-01 3.263e-02
                                    5.267 1.42e-07 ***
regionSE231
              1.502e-01 6.268e-02
                                    2.396 0.016581 *
             -3.099e-01 5.530e-02 -5.604 2.15e-08 ***
regionSE232
regionSE311
             -8.219e-02 7.276e-02 -1.130 0.258667
              5.202e-01 5.798e-02 8.973 < 2e-16 ***
regionSE312
              3.021e-01 5.543e-02
                                    5.451 5.15e-08 ***
regionSE313
regionSE321
              4.492e-02 5.489e-02
                                    0.818 0.413158
regionSE322
              6.028e-01 6.475e-02
                                    9.309 < 2e-16 ***
              1.672e-01 5.314e-02
                                    3.146 0.001663 **
regionSE331
regionSE332
             -8.904e-02 6.103e-02 -1.459 0.144609
time_centered -6.441e-05 7.574e-05 -0.850 0.395118
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.9321 on 9208 degrees of freedom Multiple R-squared: 0.05866, Adjusted R-squared: 0.05652 F-statistic: 27.33 on 21 and 9208 DF, p-value: < 2.2e-16

```
summary(model30)
```

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```
Call:
lm(formula = combination_value ~ region + time_centered, data = swedish_data)

Residuals:
Min 10 Median 30 Max
-2.9574 -1.0829 -0.0836 0.9140 4.3205
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
            4.0752229  0.0331408 122.967  < 2e-16 ***
regionSE121
            0.1286545 0.0956028
                                 1.346
                                        0.1784
regionSE122
            0.7216211 0.0869179
                                 8.302 < 2e-16 ***
regionSE123
            0.3109942 0.0684677
                                 4.542 5.64e-06 ***
            regionSE124
            -0.1795176 0.0948659 -1.892
regionSE125
                                        0.0585 .
regionSE211
            -0.0717638 0.1191992 -0.602
                                        0.5472
regionSE212
           regionSE213
            0.0103897 0.1318433 0.079
                                        0.9372
regionSE214
            0.3303920 0.0504202 6.553 5.95e-11 ***
            1.0235225 0.0925929 11.054 < 2e-16 ***
regionSE221
regionSE224 0.3491734 0.0473570 7.373 1.81e-13 ***
regionSE231
            0.1931325 0.0909747
                                 2.123
                                        0.0338 *
            -0.3834516    0.0802579    -4.778    1.80e-06 ***
regionSE232
regionSE311 -0.2779906 0.1056082 -2.632
                                        0.0085 **
regionSE312
            0.8714020 0.0841536 10.355 < 2e-16 ***
regionSE313
            0.4100437 0.0804563
                                 5.096 3.53e-07 ***
            0.1294393 0.0796654
                                 1.625
regionSE321
                                       0.1042
regionSE322
            0.8519372 0.0939810
                                 9.065 < 2e-16 ***
regionSE331
            0.0760160 0.0771283
                                 0.986
                                        0.3244
            -0.1987529 0.0885833 -2.244
                                        0.0249 *
regionSE332
time_centered -0.0000568 0.0001099 -0.517
                                        0.6054
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.353 on 9208 degrees of freedom Multiple R-squared: 0.05454, Adjusted R-squared: 0.05238 F-statistic: 25.29 on 21 and 9208 DF, p-value: < 2.2e-16

```
# None of the models are significant, reaffirms conclusions of the original models. Al
#Models with 3 variables
# Model 11: treatment + agea + region
model31 <- lm(perception_immigrants ~ treatment + agea + region, data = swedish_data)
model32 <- lm(perception_refugees ~ treatment + agea + region, data = swedish_data)
model33 <- lm(combination_value ~ treatment + agea + region, data = swedish_data)
# Print summaries
summary(model31)</pre>
```

Call:

```
lm(formula = perception_immigrants ~ treatment + agea + region,
```

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```
data = swedish_data)
```

```
Residuals:
```

```
Min 10 Median 30 Max
-1.0811 -0.6226 0.1605 0.3273 2.3386
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
            1.3427755 0.0270071 49.719 < 2e-16 ***
treatmentTRUE -0.0083502 0.0160408 -0.521 0.60268
agea
            0.0056072 0.0004074 13.765 < 2e-16 ***
regionSE121
            0.1413023 0.0443683 3.185 0.00145 **
                               4.905 9.51e-07 ***
regionSE122
            0.1979516 0.0403583
regionSE123
            0.0124064 0.0318069
                               0.390 0.69650
regionSE124
            0.1225026 0.0400380
                               3.060 0.00222 **
            0.0230080 0.0441490
                               0.521 0.60228
regionSE125
regionSE211
            0.0907261 0.0553625
                               1.639 0.10130
regionSE212
           regionSE213
           -0.0131650 0.0612664 -0.215 0.82986
                               2.804 0.00506 **
regionSE214
            0.0656025 0.0233989
regionSE221
            regionSE224
            0.1827616 0.0219810
                               8.315 < 2e-16 ***
regionSE231
            0.0694726 0.0422631
                               1.644 0.10025
           -0.0599665 0.0372591 -1.609 0.10755
regionSE232
           regionSE311
regionSE312
            0.3342060 0.0390742
                               8.553 < 2e-16 ***
regionSE313
            0.0976653 0.0373446
                               2.615 0.00893 **
            0.0439069 0.0370891
                               1.184 0.23651
regionSE321
regionSE322
            0.2380170 0.0436182
                               5.457 4.97e-08 ***
           -0.0819141 0.0358003 -2.288 0.02216 *
regionSE331
regionSE332
           -0.0993191 0.0411144 -2.416 0.01573 *
```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6278 on 9207 degrees of freedom Multiple R-squared: 0.05417, Adjusted R-squared: 0.05191 F-statistic: 23.97 on 22 and 9207 DF, p-value: < 2.2e-16

summary(model32)

Call:

```
lm(formula = perception_refugees ~ treatment + agea + region,
    data = swedish_data)
```

Residuals:

```
Min 10 Median 30 Max -2.02429 -0.63153 -0.06378 0.57152 2.60592
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|) (Intercept) 2.4849009 0.0400921 61.980 < 2e-16 *** treatmentTRUE -0.0137053 0.0238126 -0.576 0.564934
```

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```
-0.0009404
                       0.0006047
                                -1.555 0.119960
agea
            -0.0103660
                       0.0658650 -0.157 0.874946
regionSE121
regionSE122
             0.5384467
                       0.0599121
                                  8.987 < 2e-16 ***
regionSE123
             0.3152101
                       0.0472175
                                  6.676 2.60e-11 ***
regionSE124
             0.4948616
                       0.0594366
                                  8.326 < 2e-16 ***
regionSE125
            -0.2400399
                       0.0655394 - 3.663 0.000251 ***
            regionSE211
regionSE212
            -0.2610348
                       0.1100658 - 2.372 \ 0.017731 *
regionSE213
            -0.0121554
                       0.0909504 -0.134 0.893683
regionSE214
             0.2626868 0.0347357
                                  7.562 4.34e-14 ***
                       0.0637941 11.235 < 2e-16 ***
regionSE221
             0.7167519
regionSE224
             0.1710830
                       0.0326309
                                  5.243 1.62e-07 ***
                       0.0627399
                                  2.328 0.019950 *
regionSE231
             0.1460388
            regionSE232
regionSE311
            -0.0800948
                       0.0727704 -1.101 0.271077
regionSE312
                       0.0580059
                                  9.018 < 2e-16 ***
             0.5231080
regionSE313
             0.3041658 0.0554383
                                  5.487 4.21e-08 ***
regionSE321
                                  0.943 0.345654
             0.0519262 0.0550589
regionSE322
             0.6052119 0.0647514
                                  9.347 < 2e-16 ***
regionSE331
             0.1657648
                       0.0531457
                                  3.119 0.001820 **
            -0.0903458 0.0610346 -1.480 0.138844
regionSE332
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.932 on 9207 degrees of freedom Multiple R-squared: 0.05888, Adjusted R-squared: 0.05663 F-statistic: 26.18 on 22 and 9207 DF, p-value: < 2.2e-16

summary(model33)

Call:

lm(formula = combination_value ~ treatment + agea + region, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.9976 -1.0610 -0.1057 0.8783 4.2443

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              3.8276764 0.0581078 65.872 < 2e-16 ***
treatmentTRUE -0.0220556
                         0.0345129 -0.639 0.52280
agea
              0.0046668
                         0.0008764
                                     5.325 1.04e-07 ***
regionSE121
              0.1309363
                         0.0954618
                                     1.372 0.17022
                         0.0868340
regionSE122
              0.7363983
                                     8.481 < 2e-16 ***
regionSE123
                                     4.787 1.72e-06 ***
              0.3276165
                         0.0684349
                                     7.167 8.28e-13 ***
regionSE124
              0.6173642
                         0.0861448
regionSE125
             -0.2170319
                         0.0949899
                                   -2.285 0.02235 *
                                    -0.815 0.41497
regionSE211
             -0.0971063
                         0.1191167
regionSE212
             -0.6866071
                         0.1595245 -4.304 1.69e-05 ***
regionSE213
             -0.0253204
                         0.1318194 -0.192 0.84768
regionSE214
              0.3282893
                         0.0503444
                                     6.521 7.36e-11 ***
                         0.0924604 11.129 < 2e-16 ***
regionSE221
              1.0289540
```

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```
regionSE224
             0.2155114 0.0909324 2.370 0.01781 *
regionSE231
regionSE232
            regionSE311 -0.2882461 0.1054701 -2.733 0.00629 **
regionSE312 0.8573141 0.0840712 10.197 < 2e-16 ***
regionSE313 0.4018311 0.0803498 5.001 5.81e-07 ***
regionSE321 0.0958331 0.0798000 1.201 0.22981
regionSE322 0.8432290 0.0938478
                                  8.985 < 2e-16 ***
regionSE331 0.0838507 0.0770270 1.089 0.27636
regionSE332 -0.1896649 0.0884608 -2.144 0.03205 *
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.351 on 9207 degrees of freedom
Multiple R-squared: 0.05743,
                             Adjusted R-squared: 0.05518
F-statistic: 25.5 on 22 and 9207 DF, p-value: < 2.2e-16
# Model 12: treatment + agea + time_centered
model34 <- lm(perception_immigrants ~ treatment + agea + time_centered, data = swedish</pre>
model35 <- lm(perception refugees ~ treatment + agea + time centered, data = swedish d
model36 <- lm(combination_value ~ treatment + agea + time_centered, data = swedish_dat</pre>
# Print summaries
summary (model34)
Call:
lm(formula = perception_immigrants ~ treatment + agea + time_centered,
   data = swedish_data)
Residuals:
   Min
            10 Median
                          30
                                 Max
-0.9198 -0.6584 0.2021 0.3152 2.3701
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)
             1.427e+00 2.715e-02 52.579 <2e-16 ***
treatmentTRUE -2.056e-02 3.440e-02 -0.597
                                           0.550
agea
             5.473e-03 4.080e-04 13.414
                                          <2e-16 ***
time_centered 4.872e-05 1.094e-04
                                   0.445
                                           0.656
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.6387 on 9226 degrees of freedom
Multiple R-squared: 0.01913, Adjusted R-squared: 0.01882
F-statistic: 59.99 on 3 and 9226 DF, p-value: < 2.2e-16
summary(model35)
```

Call:

```
lm(formula = perception_refugees ~ treatment + agea + time_centered,
    data = swedish_data)
```

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```
Residuals:
```

```
Min
            10 Median
                            30
                                  Max
-1.6565 -0.6001 0.3555 0.4309 2.4762
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              2.6616204 0.0407739 65.278
                                           <2e-16 ***
treatmentTRUE 0.0230362 0.0516771
                                  0.446
                                           0.6558
             -0.0015606 0.0006129 -2.546
                                           0.0109 *
agea
time_centered -0.0001341 0.0001644 -0.816
                                           0.4147
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.9594 on 9226 degrees of freedom Multiple R-squared: 0.0008121, Adjusted R-squared: 0.0004872

2.5 on 3 and 9226 DF, p-value: 0.05766

```
summary(model36)
```

Call:

```
lm(formula = combination_value ~ treatment + agea + time_centered,
   data = swedish_data)
```

Residuals:

```
Min
            10 Median
                            30
                                   Max
-2.4426 -1.2548 -0.2637 0.7118 4.7417
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              4.089e+00 5.901e-02 69.291 < 2e-16 ***
treatmentTRUE 2.480e-03 7.479e-02
                                     0.033
                                              0.974
              3.912e-03 8.870e-04
                                     4.411 1.04e-05 ***
agea
time_centered -8.537e-05 2.379e-04 -0.359
                                              0.720
```

```
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 1.388 on 9226 degrees of freedom Multiple R-squared: 0.002149, Adjusted R-squared: 0.001824 F-statistic: 6.622 on 3 and 9226 DF, p-value: 0.0001826

```
# Model 13: treatment + region + time_centered
model37 <- lm(perception_immigrants ~ treatment + region + time_centered, data = swedi</pre>
model38 <- lm(perception_refugees ~ treatment + region + time_centered, data = swedish</pre>
model39 <- lm(combination_value ~ treatment + region + time_centered, data = swedish_d</pre>
# Print summaries
summary(model37)
```

Call:

```
lm(formula = perception_immigrants ~ treatment + region + time_centered,
```

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```
Residuals:
```

```
Min 10 Median 30 Max -1.0023 -0.6484 0.1744 0.3512 2.4256
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              1.649e+00 2.091e-02 78.877 < 2e-16 ***
treatmentTRUE 3.740e-04 3.413e-02
                                   0.011 0.99126
regionSE121
              1.388e-01 4.482e-02
                                   3.097 0.00196 **
regionSE122
             1.803e-01 4.075e-02
                                   4.425 9.74e-06 ***
            -7.356e-03 3.210e-02 -0.229 0.81876
regionSE123
regionSE124
             1.170e-01 4.045e-02 2.892 0.00384 **
regionSE125
             6.861e-02 4.448e-02
                                   1.542 0.12303
regionSE211
             1.209e-01 5.589e-02
                                   2.164 0.03050 *
regionSE212
            -3.688e-01 7.479e-02 -4.931 8.31e-07 ***
regionSE213
             2.971e-02 6.181e-02
                                   0.481 0.63081
                                   2.894 0.00381 **
regionSE214
             6.842e-02 2.364e-02
regionSE221
             3.059e-01 4.341e-02
                                   7.047 1.96e-12 ***
regionSE224
             1.773e-01 2.220e-02
                                   7.986 1.57e-15 ***
regionSE231
             4.293e-02 4.265e-02
                                   1.006 0.31423
regionSE232
            -7.354e-02 3.763e-02 -1.955 0.05067 .
            -1.958e-01 4.951e-02 -3.954 7.73e-05 ***
regionSE311
             3.512e-01 3.945e-02
                                   8.900 < 2e-16 ***
regionSE312
regionSE313
             1.079e-01 3.772e-02
                                   2.860 0.00424 **
regionSE321
             8.452e-02 3.735e-02
                                   2.263 0.02368 *
             2.491e-01 4.407e-02
                                   5.654 1.61e-08 ***
regionSE322
regionSE331
            -9.114e-02 3.616e-02 -2.521 0.01174 *
            -1.097e-01 4.153e-02 -2.642 0.00827 **
regionSE332
time centered 6.566e-06 1.087e-04
                                   0.060 0.95182
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6343 on 9207 degrees of freedom Multiple R-squared: 0.0347, Adjusted R-squared: 0.0324 F-statistic: 15.04 on 22 and 9207 DF, p-value: < 2.2e-16

summary(model38)

Call:

```
lm(formula = perception_refugees ~ treatment + region + time_centered,
    data = swedish_data)
```

Residuals:

```
Min 10 Median 30 Max -2.0440 -0.6133 -0.0441 0.5685 2.6077
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|) (Intercept) 2.422e+00 3.073e-02 78.808 < 2e-16 *** treatmentTRUE 1.038e-02 5.016e-02 0.207 0.835978
```

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```
regionSE121
             -1.024e-02 6.587e-02 -0.155 0.876486
regionSE122
              5.412e-01 5.989e-02
                                    9.036 < 2e-16 ***
regionSE123
              3.183e-01 4.718e-02
                                    6.747 1.60e-11 ***
                                    8.341 < 2e-16 ***
regionSE124
              4.958e-01 5.944e-02
regionSE125
             -2.483e-01 6.537e-02 -3.799 0.000146 ***
regionSE211
             -1.926e-01 8.213e-02 -2.345 0.019053 *
             -2.706e-01 1.099e-01 -2.462 0.013843 *
regionSE212
regionSE213
             -1.936e-02 9.084e-02 -0.213 0.831278
regionSE214
              2.619e-01 3.474e-02
                                  7.538 5.24e-14 ***
regionSE221
              7.175e-01 6.380e-02 11.246 < 2e-16 ***
regionSE224
              1.718e-01 3.263e-02
                                  5.266 1.43e-07 ***
regionSE231
             1.501e-01 6.268e-02 2.395 0.016644 *
             -3.099e-01 5.530e-02 -5.604 2.15e-08 ***
regionSE232
             -8.222e-02 7.277e-02 -1.130 0.258561
regionSE311
regionSE312
              5.202e-01 5.798e-02
                                    8.972 < 2e-16 ***
regionSE313
              3.020e-01 5.544e-02
                                    5.448 5.22e-08 ***
regionSE321
              4.482e-02 5.489e-02
                                    0.817 0.414218
                                    9.305 < 2e-16 ***
regionSE322
              6.026e-01 6.476e-02
                                    3.145 0.001665 **
regionSE331
              1.671e-01 5.314e-02
regionSE332
             -8.918e-02 6.104e-02 -1.461 0.144058
time_centered -9.353e-05 1.597e-04 -0.586 0.558168
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.9321 on 9207 degrees of freedom Multiple R-squared: 0.05867, Adjusted R-squared: 0.05642 F-statistic: 26.08 on 22 and 9207 DF, p-value: < 2.2e-16

summary(model39)

Call:

```
lm(formula = combination_value ~ treatment + region + time_centered,
    data = swedish_data)
```

Residuals:

```
Min 10 Median 30 Max -2.9586 -1.0825 -0.0837 0.9127 4.3207
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              4.071e+00 4.460e-02 91.277 < 2e-16 ***
              1.076e-02 7.280e-02
treatmentTRUE
                                    0.148 0.88251
regionSE121
              1.286e-01 9.561e-02
                                    1.345 0.17877
regionSE122
              7.215e-01 8.692e-02
                                    8.301 < 2e-16 ***
                                    4.541 5.66e-06 ***
regionSE123
              3.110e-01 6.847e-02
              6.127e-01 8.627e-02
                                    7.102 1.32e-12 ***
regionSE124
regionSE125
             -1.797e-01 9.488e-02 -1.894 0.05823 .
             -7.166e-02 1.192e-01 -0.601 0.54777
regionSE211
regionSE212
             -6.394e-01 1.595e-01 -4.008 6.17e-05 ***
regionSE213
              1.035e-02 1.319e-01
                                    0.079 0.93742
              3.303e-01 5.043e-02
                                    6.550 6.05e-11 ***
regionSE214
              1.023e+00 9.260e-02 11.052 < 2e-16 ***
regionSE221
```

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```
3.491e-01 4.736e-02
                                   7.372 1.83e-13 ***
regionSE224
regionSE231
              1.931e-01 9.098e-02
                                   2.122 0.03387 *
regionSE232
             -3.835e-01 8.026e-02 -4.778 1.80e-06 ***
regionSE311
            -2.780e-01 1.056e-01 -2.632 0.00849 **
regionSE312
             8.714e-01 8.416e-02 10.354 < 2e-16 ***
regionSE313
             4.099e-01 8.046e-02
                                   5.095 3.56e-07 ***
regionSE321
             1.293e-01 7.967e-02 1.623 0.10455
regionSE322
             8.518e-01 9.399e-02
                                   9.062 < 2e-16 ***
regionSE331
              7.600e-02 7.713e-02
                                   0.985 0.32448
regionSE332
             -1.989e-01 8.859e-02 -2.245 0.02479 *
time_centered -8.696e-05 2.318e-04 -0.375 0.70757
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 1.353 on 9207 degrees of freedom Multiple R-squared: 0.05454, Adjusted R-squared: 0.05228 F-statistic: 24.14 on 22 and 9207 DF, p-value: < 2.2e-16

```
# Model 14: agea + region + time_centered
model40 <- lm(perception_immigrants ~ agea + region + time_centered, data = swedish_da
model41 <- lm(perception_refugees ~ agea + region + time_centered, data = swedish_data
model42 <- lm(combination_value ~ agea + region + time_centered, data = swedish_data)
# Print summaries
summary(model40)</pre>
```

Call:

```
lm(formula = perception_immigrants ~ agea + region + time_centered,
    data = swedish_data)
```

Residuals:

```
Min 10 Median 30 Max -1.0803 -0.6240 0.1612 0.3273 2.3350
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              1.341e+00 2.720e-02 49.286 < 2e-16 ***
              5.599e-03 4.070e-04 13.756 < 2e-16 ***
agea
regionSE121
              1.413e-01 4.437e-02
                                    3.184 0.00146 **
regionSE122
              1.978e-01 4.036e-02
                                    4.902 9.63e-07 ***
              1.243e-02 3.181e-02
                                    0.391 0.69607
regionSE123
regionSE124
              1.227e-01 4.004e-02
                                    3.064 0.00219 **
regionSE125
              2.301e-02 4.415e-02
                                    0.521 0.60233
regionSE211
              9.082e-02 5.536e-02
                                    1.640 0.10097
regionSE212
             -4.254e-01 7.414e-02 -5.737 9.92e-09 ***
             -1.318e-02 6.127e-02 -0.215 0.82964
regionSE213
regionSE214
              6.562e-02 2.340e-02
                                    2.804 0.00506 **
              3.122e-01 4.297e-02
                                    7.264 4.05e-13 ***
regionSE221
regionSE224
              1.828e-01 2.198e-02
                                    8.314 < 2e-16 ***
regionSE231
              6.948e-02 4.227e-02
                                    1.644 0.10020
regionSE232
             -5.988e-02 3.726e-02 -1.607 0.10806
             -2.082e-01 4.902e-02 -4.246 2.19e-05 ***
regionSE311
```

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```
To what extent do terrorist attacks affect public sentiment surrounding immigration and refugee policy? A case study of the Stockholm terror...
regionSE312
               3.342e-01 3.907e-02
                                       8.553 < 2e-16 ***
regionSE313
               9.771e-02 3.735e-02
                                       2.616 0.00890 **
regionSE321
               4.392e-02 3.709e-02
                                       1.184 0.23638
regionSE322
               2.381e-01 4.362e-02
                                       5.458 4.94e-08 ***
regionSE331
              -8.185e-02 3.580e-02 -2.286 0.02226 *
regionSE332
              -9.928e-02 4.112e-02 -2.415 0.01577 *
time_centered -1.013e-05 5.104e-05 -0.199 0.84264
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.6278 on 9207 degrees of freedom
Multiple R-squared: 0.05414,
                                 Adjusted R-squared: 0.05188
F-statistic: 23.96 on 22 and 9207 DF, p-value: < 2.2e-16
 summary(model41)
Call:
lm(formula = perception refugees ~ agea + region + time centered,
    data = swedish data)
Residuals:
    Min
             1Q Median
                              30
                                     Max
-2.0295 -0.6328 -0.0679 0.5714 2.6118
Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)
               2.478e+00 4.038e-02 61.364 < 2e-16 ***
```

```
-9.446e-04 6.042e-04 -1.563 0.117994
agea
regionSE121
             -1.057e-02 6.586e-02 -0.160 0.872553
              5.383e-01 5.991e-02 8.985 < 2e-16 ***
regionSE122
                                    6.671 2.68e-11 ***
regionSE123
              3.150e-01 4.722e-02
                                    8.324 < 2e-16 ***
regionSE124
              4.947e-01 5.943e-02
regionSE125
             -2.404e-01 6.554e-02 -3.668 0.000245 ***
regionSE211
             -1.876e-01 8.218e-02 -2.283 0.022463 *
regionSE212
             -2.611e-01 1.101e-01 -2.372 0.017717 *
regionSE213
             -1.208e-02 9.095e-02 -0.133 0.894309
regionSE214
              2.624e-01 3.474e-02
                                   7.555 4.59e-14 ***
              7.165e-01 6.379e-02 11.232 < 2e-16 ***
regionSE221
regionSE224
              1.709e-01 3.263e-02
                                    5.239 1.65e-07 ***
regionSE231
              1.457e-01 6.274e-02
                                    2.323 0.020223 *
             -3.122e-01 5.531e-02 -5.645 1.70e-08 ***
regionSE232
regionSE311
             -8.011e-02 7.277e-02 -1.101 0.270985
regionSE312
              5.231e-01 5.800e-02
                                    9.018 < 2e-16 ***
                                     5.481 4.34e-08 ***
regionSE313
              3.039e-01 5.544e-02
regionSE321
              5.177e-02 5.506e-02
                                    0.940 0.347110
              6.046e-01 6.476e-02
                                     9.337 < 2e-16 ***
regionSE322
regionSE331
              1.656e-01 5.315e-02
                                     3.116 0.001840 **
             -9.080e-02 6.104e-02 -1.488 0.136877
regionSE332
time_centered -6.142e-05 7.576e-05 -0.811 0.417566
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

```
Residual standard error: 0.932 on 9207 degrees of freedom Multiple R-squared: 0.05891, Adjusted R-squared: 0.05667 F-statistic: 26.2 on 22 and 9207 DF, p-value: < 2.2e-16
```

```
summary (model42)
```

```
Call:
lm(formula = combination_value ~ agea + region + time_centered,
   data = swedish data)
Residuals:
   Min
            10 Median
                           30
                                  Max
-3.0024 -1.0637 -0.1036 0.8766 4.2477
Coefficients:
               Estimate Std. Error t value Pr(>|t|)
              3.819e+00 5.853e-02 65.245 < 2e-16 ***
(Intercept)
              4.654e-03 8.757e-04 5.315 1.09e-07 ***
agea
regionSE121
              1.307e-01 9.546e-02 1.369 0.17097
              7.362e-01 8.683e-02
                                    8.478 < 2e-16 ***
regionSE122
              3.274e-01 6.844e-02
                                    4.785 1.74e-06 ***
regionSE123
regionSE124
              6.174e-01 8.614e-02 7.167 8.24e-13 ***
regionSE125
             -2.174e-01 9.499e-02 -2.289 0.02211 *
             -9.680e-02 1.191e-01 -0.813 0.41645
regionSE211
             -6.865e-01 1.595e-01 -4.303 1.70e-05 ***
regionSE212
regionSE213
             -2.527e-02 1.318e-01 -0.192 0.84800
regionSE214
              3.281e-01 5.035e-02 6.516 7.61e-11 ***
             1.029e+00 9.246e-02 11.126 < 2e-16 ***
regionSE221
regionSE224
              3.537e-01 4.729e-02 7.479 8.19e-14 ***
              2.152e-01 9.094e-02 2.367 0.01797 *
regionSE231
regionSE232
             -3.721e-01 8.017e-02 -4.641 3.51e-06 ***
             -2.883e-01 1.055e-01 -2.733 0.00629 **
regionSE311
regionSE312
              8.573e-01 8.407e-02 10.197 < 2e-16 ***
regionSE313
              4.016e-01 8.035e-02 4.998 5.91e-07 ***
              9.569e-02 7.980e-02
                                    1.199 0.23052
regionSE321
regionSE322
              8.427e-01 9.386e-02
                                    8.979 < 2e-16 ***
regionSE331
              8.374e-02 7.703e-02
                                    1.087 0.27701
             -1.901e-01 8.847e-02 -2.149 0.03169 *
regionSE332
time_centered -7.155e-05 1.098e-04 -0.652 0.51467
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.351 on 9207 degrees of freedom
Multiple R-squared: 0.05743, Adjusted R-squared: 0.05518
F-statistic: 25.5 on 22 and 9207 DF, p-value: < 2.2e-16
#Reinforces original conclusions, values of R-squared are slightly lower than before.
#Try an interaction between region and age
model1_int <- lm(perception_immigrants ~ treatment + agea * region, data = swedish_dat</pre>
```

model3_int <- lm(combination_value ~ treatment + agea * region, data = swedish_data)
localhost:3368</pre>

model2_int <- lm(perception_refugees ~ treatment + agea * region, data = swedish_data)</pre>

summary(model1_int)

```
Call:
```

lm(formula = perception_immigrants ~ treatment + agea * region,
 data = swedish_data)

Residuals:

Min 10 Median 30 Max -1.0992 -0.6090 0.1345 0.3524 2.3204

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	1.4671667	0.0535833	27.381	< 2e-16	***
treatmentTRUE	-0.0080482	0.0159552	-0.504	0.613973	
agea	0.0033405	0.0009367	3.566	0.000364	***
regionSE121	-0.1181148	0.1746611	-0.676	0.498898	
regionSE122	0.4548010	0.1474320	3.085	0.002043	**
regionSE123	0.1040722	0.1075012	0.968	0.333019	
regionSE124	0.8559442	0.1514118	5.653	1.62e-08	***
regionSE125	-0.0549201	0.1851157	-0.297	0.766718	
regionSE211	-0.2290572	0.3323527	-0.689	0.490715	
regionSE212	-0.6164681	0.3111321	-1.981	0.047579	*
regionSE213	-0.8753584	0.2864026	-3.056	0.002247	**
regionSE214	-0.2043158	0.0825895	-2.474	0.013384	*
regionSE221	0.1530256	0.1567607	0.976	0.329004	
regionSE224	-0.0495366	0.0754026	-0.657	0.511222	
regionSE231	0.0036563	0.1390939	0.026	0.979030	
regionSE232	-0.5202965	0.1217074	-4.275	1.93e-05	***
regionSE311	0.0937401	0.1717430	0.546	0.585206	
regionSE312	0.5402099	0.1498925	3.604	0.000315	***
regionSE313	-0.4448255	0.1421059	-3.130	0.001752	**
regionSE321	-0.3547885	0.1409348	-2.517	0.011840	*
regionSE322	-0.1041309	0.1530273	-0.680	0.496223	
regionSE331	0.1060933	0.1283368	0.827	0.408441	
regionSE332	-0.3916430	0.1249737	-3.134	0.001731	**
agea:regionSE121	0.0047450	0.0031011	1.530	0.126026	
agea:regionSE122		0.0027198		0.060961	
agea:regionSE123		0.0019692		0.324189	
agea:regionSE124		0.0027061		4.54e-07	***
agea:regionSE125		0.0028905		0.596964	
agea:regionSE211		0.0054499		0.312365	
agea:regionSE212	0.0032889	0.0046778		0.482023	
agea:regionSE213	0.0140552	0.0044947		0.001771	
agea:regionSE214	0.0048928	0.0014360		0.000659	***
agea:regionSE221	0.0029123	0.0027980		0.297978	
agea:regionSE224	0.0042666	0.0013262		0.001299	**
agea:regionSE231	0.0010972	0.0026117		0.674417	
agea:regionSE232	0.0086717	0.0021917		7.66e-05	
agea:regionSE311		0.0028949		0.072597	•
agea:regionSE312		0.0025167		0.172053	
agea:regionSE313	0.0096390	0.0024305		7.37e-05	
agea:regionSE321	0.0066791	0.0022327	2.991	0.002784	**

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Residual standard error: 0.6241 on 9187 degrees of freedom Multiple R-squared: 0.06743, Adjusted R-squared: 0.06316 F-statistic: 15.81 on 42 and 9187 DF, p-value: < 2.2e-16

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

```
summary(model2_int)
```

Call:

```
lm(formula = perception_refugees ~ treatment + agea * region,
    data = swedish_data)
```

Residuals:

```
Min 1Q Median 3Q Max -2.07181 -0.61885 -0.04285 0.55319 2.76227
```

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	2.0761311	0.0795000	26.115	< 2e-16	***
treatmentTRUE	-0.0134040	0.0236723	-0.566	0.571249	
agea	0.0065031	0.0013897	4.679	2.92e-06	***
regionSE121	0.0752826	0.2591397	0.291	0.771433	
regionSE122	1.3257366	0.2187406	6.061	1.41e-09	***
regionSE123	1.2915978	0.1594965	8.098	6.30e-16	***
regionSE124	1.0093777	0.2246453	4.493	7.10e-06	***
regionSE125	1.2459532	0.2746509	4.536	5.79e-06	***
regionSE211	0.8404259	0.4931022	1.704	0.088347	•
regionSE212	-0.3617371	0.4616177	-0.784	0.433278	
regionSE213	2.2162898	0.4249273	5.216	1.87e-07	***
regionSE214	0.3828964	0.1225357	3.125	0.001785	**
regionSE221	1.3251206	0.2325814	5.697	1.25e-08	***
regionSE224	0.5847509	0.1118727	5.227	1.76e-07	***
regionSE231	-0.1078177	0.2063697	-0.522	0.601370	
regionSE232	0.3804195	0.1805738	2.107	0.035168	*
regionSE311	0.9905949	0.2548102	3.888	0.000102	***
regionSE312	1.2532059	0.2223912	5.635	1.80e-08	***
regionSE313	0.5956100	0.2108384	2.825	0.004739	**
regionSE321	0.6416820	0.2091009	3.069	0.002156	**
regionSE322	1.5220891	0.2270422	6.704	2.15e-11	***
regionSE331	0.7487797	0.1904097	3.932	8.47e-05	***
regionSE332	0.2673372	0.1854198	1.442	0.149394	
agea:regionSE121	-0.0015110	0.0046010	-0.328	0.742610	
agea:regionSE122	-0.0147545	0.0040353	-3 . 656	0.000257	***
agea:regionSE123		0.0029217	-6.331	2.55e-10	***
agea:regionSE124	-0.0094078	0.0040150	-2.343	0.019141	*
agea:regionSE125		0.0042885		1.09e-08	
agea:regionSE211	-0.0177188	0.0080859	-2.191	0.028452	*
agea:regionSE212	0.0003936	0.0069403	0.057	0.954771	

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```
agea:regionSE213 -0.0365220  0.0066686  -5.477  4.45e-08 ***
agea:regionSE214 -0.0022351  0.0021306  -1.049  0.294175
agea:regionSE221 -0.0111562  0.0041513  -2.687  0.007215 **
agea:regionSE224 -0.0075355  0.0019677  -3.830  0.000129 ***
agea:regionSE231  0.0057713  0.0038748  1.489  0.136409
agea:regionSE232 -0.0128532  0.0032518  -3.953  7.79e-05 ***
agea:regionSE311 -0.0190337  0.0042951  -4.432  9.47e-06 ***
agea:regionSE312 -0.0129907  0.0037339  -3.479  0.000505 ***
agea:regionSE313 -0.0053754  0.0036061  -1.491  0.136084
agea:regionSE321 -0.0103566  0.0033126  -3.126  0.001775 **
agea:regionSE322 -0.0163847  0.0038478  -4.258  2.08e-05 ***
agea:regionSE331 -0.0107182  0.0034190  -3.135  0.001725 **
agea:regionSE332 -0.0064808  0.0032844  -1.973  0.048501 *
---
Signif. codes:  0 '***'  0.001 '**'  0.05 '.'  0.1 ' ' 1
```

Residual standard error: 0.926 on 9187 degrees of freedom Multiple R-squared: 0.07312, Adjusted R-squared: 0.06888 F-statistic: 17.26 on 42 and 9187 DF, p-value: < 2.2e-16

```
summary(model3_int)
```

Call:

lm(formula = combination_value ~ treatment + agea * region, data = swedish_data)

Residuals:

Min 10 Median 30 Max -2.9302 -1.0355 -0.0847 0.8746 4.2273

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	3.543298	0.115482	30.683	< 2e-16	***
treatmentTRUE	-0.021452	0.034386	-0.624	0.532737	
agea	0.009844	0.002019	4.876	1.10e-06	***
regionSE121	-0.042832	0.376428	-0.114	0.909410	
regionSE122	1.780538	0.317744	5.604	2.16e-08	***
regionSE123	1.395670	0.231685	6.024	1.77e-09	***
regionSE124	1.865322	0.326321	5.716	1.12e-08	***
regionSE125	1.191033	0.398959	2.985	0.002840	**
regionSE211	0.611369	0.716283	0.854	0.393388	
regionSE212	-0.978205	0.670548	-1.459	0.144651	
regionSE213	1.340931	0.617252	2.172	0.029849	*
regionSE214	0.178581	0.177996	1.003	0.315751	
regionSE221	1.478146	0.337849	4.375	1.23e-05	***
regionSE224	0.535214	0.162507	3.293	0.000993	***
regionSE231	-0.104161	0.299774	-0.347	0.728249	
regionSE232	-0.139877	0.262303	-0.533	0.593863	
regionSE311	1.084335	0.370139	2.930	0.003403	**
regionSE312	1.793416	0.323047	5.552	2.91e-08	***
regionSE313	0.150785	0.306265	0.492	0.622495	
regionSE321	0.286894	0.303741	0.945	0.344922	
regionSE322	1.417958	0.329803	4.299	1.73e-05	***

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```
regionSE331
                             0.276590
                  0.854873
                                        3.091 0.002002 **
                 -0.124306
                             0.269342 -0.462 0.644439
regionSE332
agea:regionSE121 0.003234
                             0.006683
                                        0.484 0.628483
agea:regionSE122 -0.019851
                             0.005862 -3.387 0.000711 ***
agea:regionSE123 -0.020439
                             0.004244 -4.816 1.49e-06 ***
agea:regionSE124 -0.023069
                             0.005832 - 3.956 7.69e - 05 ***
                             0.006230 -3.693 0.000223 ***
agea:regionSE125 -0.023007
agea:regionSE211 -0.012213
                             0.011746 -1.040 0.298475
agea:regionSE212 0.003683
                             0.010082
                                       0.365 0.714916
agea:regionSE213 -0.022467
                             0.009687 - 2.319 \ 0.020400 *
                                       0.859 0.390502
agea:regionSE214 0.002658
                             0.003095
agea:regionSE221 -0.008244
                             0.006030 - 1.367 0.171630
agea:regionSE224 -0.003269
                             0.002858 -1.144 0.252797
                                      1.220 0.222391
agea:regionSE231 0.006868
                             0.005629
agea:regionSE232 -0.004181
                             0.004724 - 0.885 0.376054
agea:regionSE311 -0.024232
                             0.006239 -3.884 0.000104 ***
agea:regionSE312 -0.016428
                             0.005424 -3.029 0.002462 **
agea:regionSE313 0.004264
                             0.005238
                                       0.814 0.415699
                             0.004812 -0.764 0.444744
agea:regionSE321 -0.003677
agea:regionSE322 -0.010288
                             0.005589 -1.841 0.065717 .
                             0.004966 -2.884 0.003940 **
agea:regionSE331 -0.014322
agea:regionSE332 -0.001047
                             0.004771 -0.219 0.826270
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.345 on 9187 degrees of freedom
Multiple R-squared: 0.06752,
                                Adjusted R-squared: 0.06326
F-statistic: 15.84 on 42 and 9187 DF, p-value: < 2.2e-16
#The results confirm that the treatment effect is consistently non-significant across
#Propoensity score matching
matchit <- matchit(treatment ~ agea + region, data = swedish_data, method = "nearest")</pre>
matched_data <- match.data(matchit)</pre>
model1_psm <- lm(perception_immigrants ~ treatment + agea + region, data = matched_dat</pre>
model2_psm <- lm(perception_refugees ~ treatment + agea + region, data = matched_data)</pre>
model3_psm <- lm(combination_value ~ treatment + agea + region, data = matched_data)</pre>
 summary(model1_psm)
Call:
lm(formula = perception_immigrants ~ treatment + agea + region,
    data = matched_data)
Residuals:
    Min
             10 Median
                             30
                                    Max
-1.0550 -0.6381 0.1510 0.3283 2.3092
Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)
               1.3699501 0.0446487 30.683 < 2e-16 ***
```

```
treatmentTRUE -0.0097586 0.0203658 -0.479 0.63185
             0.0050087
                       0.0006546
                                   7.651 2.49e-14 ***
agea
regionSE121
             0.1930167
                       0.0681728
                                   2.831 0.00466 **
regionSE122
             0.1363453
                       0.0607232
                                   2.245 0.02480 *
regionSE123
             0.0925746
                       0.0499201
                                  1.854 0.06375 .
                       0.0658882
                                   0.167 0.86769
regionSE124
             0.0109776
regionSE125
            -0.0086328 0.0677772 -0.127 0.89865
regionSE211
             0.0640675 0.0852338
                                  0.752 0.45230
regionSE212
            regionSE213
             0.0195872 0.0911202
                                   0.215 0.82981
regionSE214
             0.1234969
                       0.0362746
                                   3.405 0.00067 ***
regionSE221
             0.2985798
                       0.0664065
                                   4.496 7.12e-06 ***
                       0.0339151
                                   5.700 1.29e-08 ***
regionSE224
             0.1933117
regionSE231
             0.0674126 0.0670207
                                  1.006 0.31455
regionSE232
             0.0042249 0.0598922
                                   0.071 0.94377
            -0.3180971 0.0747098 -4.258 2.11e-05 ***
regionSE311
regionSE312
             0.3344820 0.0595475
                                  5.617 2.08e-08 ***
                                  1.341 0.18008
regionSE313
             0.0788020 0.0587741
regionSE321
             0.0720173 0.0565632
                                  1.273 0.20302
regionSE322
             0.2846202 0.0708723
                                   4.016 6.03e-05 ***
            -0.0807380 0.0567631 -1.422 0.15500
regionSE331
regionSE332
            -0.1364856 0.0658666 -2.072 0.03832 *
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.6354 on 3871 degrees of freedom Multiple R-squared: 0.0562, Adjusted R-squared: 0.05083 F-statistic: 10.48 on 22 and 3871 DF, p-value: < 2.2e-16

```
summary(model2 psm)
```

Call:

```
lm(formula = perception_refugees ~ treatment + agea + region,
   data = matched_data)
```

Residuals:

```
Min
               10
                    Median
                                 30
                                         Max
-1.98883 -0.61967 -0.02715 0.55954 2.60825
```

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
               2.568543
                          0.065207
                                    39.391 < 2e-16 ***
treatmentTRUE -0.011299
                          0.029743
                                   -0.380 0.704041
agea
             -0.002018
                          0.000956 - 2.111 0.034837 *
                                     0.086 0.931444
regionSE121
               0.008566
                          0.099563
                                     5.777 8.21e-09 ***
regionSE122
               0.512314
                          0.088683
                          0.072906 5.200 2.10e-07 ***
regionSE123
               0.379099
                                     5.066 4.26e-07 ***
regionSE124
               0.487465
                          0.096226
regionSE125
             -0.342520
                          0.098985
                                   -3.460 0.000545 ***
regionSE211
             -0.206991
                          0.124479
                                    -1.663 0.096423 .
                          0.172890 - 2.118 0.034267 *
regionSE212
             -0.366123
regionSE213
               0.022607
                          0.133076
                                     0.170 0.865116
```

```
0.276499
                         0.052977
                                    5.219 1.89e-07 ***
regionSE214
regionSE221
              0.684001
                         0.096983
                                    7.053 2.07e-12 ***
regionSE224
              0.106557
                         0.049531
                                    2.151 0.031513 *
regionSE231
              0.190376
                         0.097880
                                    1.945 0.051849 .
regionSE232
             -0.391625
                         0.087469 -4.477 7.78e-06 ***
regionSE311
             -0.165795
                         0.109110 -1.520 0.128712
regionSE312
              0.513390
                         0.086966
                                   5.903 3.87e-09 ***
regionSE313
              0.308185
                         0.085836
                                   3.590 0.000334 ***
regionSE321
             -0.022338
                         0.082608 -0.270 0.786859
regionSE322
              0.515904
                         0.103505
                                    4.984 6.49e-07 ***
regionSE331
              0.098828
                         0.082899
                                    1.192 0.233276
             -0.227117
                         0.096195 - 2.361 \ 0.018274 *
regionSE332
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.928 on 3871 degrees of freedom Multiple R-squared: 0.06853, Adjusted R-squared: 0.06324 F-statistic: 12.95 on 22 and 3871 DF, p-value: < 2.2e-16

```
summary(model3 psm)
```

Call:

lm(formula = combination_value ~ treatment + agea + region, data = matched_data)

Residuals:

Min 10 Median 30 Max -2.9808 -1.0894 -0.0993 0.8604 4.2636

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
              3.938494
                          0.095097 41.416 < 2e-16 ***
treatmentTRUE -0.021058
                          0.043377
                                   -0.485 0.627373
               0.002991
                          0.001394
                                   2.145 0.032022 *
agea
regionSE121
              0.201582
                          0.145200
                                     1.388 0.165124
regionSE122
              0.648660
                          0.129334
                                   5.015 5.53e-07 ***
regionSE123
              0.471673
                          0.106324
                                   4.436 9.41e-06 ***
                                     3.552 0.000387 ***
regionSE124
              0.498443
                          0.140335
                          0.144358 - 2.433 \ 0.015039 *
regionSE125
             -0.351153
regionSE211
             -0.142923
                          0.181538
                                   -0.787 0.431161
regionSE212
             -0.920754
                          0.252140
                                   -3.652 0.000264 ***
              0.042194
                          0.194076
                                     0.217 0.827901
regionSE213
regionSE214
              0.399996
                          0.077261
                                     5.177 2.37e-07 ***
regionSE221
              0.982581
                          0.141438
                                     6.947 4.36e-12 ***
regionSE224
              0.299869
                          0.072235
                                    4.151 3.38e-05 ***
regionSE231
              0.257788
                          0.142747
                                     1.806 0.071009 .
                                   -3.037 0.002406 **
regionSE232
             -0.387400
                          0.127564
regionSE311
             -0.483892
                          0.159124
                                   -3.041 0.002374 **
                                     6.685 2.64e-11 ***
regionSE312
              0.847872
                          0.126830
regionSE313
              0.386987
                          0.125182
                                    3.091 0.002006 **
regionSE321
              0.049679
                          0.120473
                                     0.412 0.680092
                                     5.303 1.20e-07 ***
regionSE322
              0.800525
                          0.150950
              0.018090
                          0.120899
                                     0.150 0.881062
regionSE331
```

```
To what extent do terrorist attacks affect public sentiment surrounding immigration and refugee policy? A case study of the Stockholm terror...
regionSE332 -0.363603
                           0.140288 -2.592 0.009583 **
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.353 on 3871 degrees of freedom
Multiple R-squared: 0.06215,
                                 Adjusted R-squared: 0.05682
F-statistic: 11.66 on 22 and 3871 DF, p-value: < 2.2e-16
#The treatment effect remains non-significant, and the slight improvements in model fi
#Rerunning the test
 t.test(perception_immigrants ~ treatment, data = matched_data)
    Welch Two Sample t-test
data: perception_immigrants by treatment
```

```
t = 0.46678, df = 3891.6, p-value = 0.6407
alternative hypothesis: true difference in means between group FALSE and group TRUE is
not equal to 0
95 percent confidence interval:
 -0.03122951 0.05074671
sample estimates:
mean in group FALSE mean in group TRUE
```

```
t.test(perception_refugees ~ treatment, data = matched_data)
```

1.723677

```
data: perception_refugees by treatment
t = 0.36765, df = 3892, p-value = 0.7132
alternative hypothesis: true difference in means between group FALSE and group TRUE is
not equal to 0
95 percent confidence interval:
 -0.04895714 0.07155601
sample estimates:
mean in group FALSE mean in group TRUE
           2.588084
                               2.576785
```

#Models confirm that the treatment does not have a significant impact on public percep

Falsification tests: placebo tests using pre-event data

This chunks output is in the thesis PDF.

1.733436

Welch Two Sample t-test

```
#Perception of immigration
placebo_data <- swedish_data %>% filter(time_centered < 0)</pre>
placebo_data <- placebo_data %>%
  mutate(placebo_treatment = ifelse(time_centered >= -20, TRUE, FALSE))
```

localhost:3368 55/61 placebo_model1 <- lm(perception_immigrants ~ placebo_treatment + agea + region + time_ summary(placebo_model1)

```
Call:
```

```
lm(formula = perception_immigrants ~ placebo_treatment + agea +
    region + time_centered, data = placebo_data)
```

Residuals:

```
Min 10 Median 30 Max
-1.0944 -0.6155 0.1572 0.3327 2.3428
```

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	1.348e+00	3.414e-02	39.498	< 2e-16	***
placebo_treatmentTRUE	1.139e-03	4.844e-02	0.024	0.98123	
agea	5.745e-03	4.573e-04	12.562	< 2e-16	***
regionSE121	1.315e-01	5.007e-02	2.627	0.00864	**
regionSE122	2.054e-01	4.582e-02	4.482	7.49e-06	***
regionSE123	-8.330e-03	3.569e-02	-0.233	0.81547	
regionSE124	1.462e-01	4.442e-02	3.290	0.00101	**
regionSE125	3.145e-02	4.984e-02	0.631	0.52804	
regionSE211	9.627e-02	6.246e-02	1.541	0.12330	
regionSE212	-3.945e-01	8.282e-02	-4.763	1.94e-06	***
regionSE213	-1.281e-02	6.980e-02	-0.184	0.85441	
regionSE214	5.232e-02	2.635e-02	1.986	0.04712	*
regionSE221	3.151e-01	4.843e-02	6.507	8.19e-11	***
regionSE224	1.800e-01	2.478e-02	7.266	4.09e-13	***
regionSE231	7 . 153e-02	4.731e-02	1.512	0.13062	
regionSE232	-7 . 117e-02	4.157e-02	-1.712	0.08692	
regionSE311	-1.779e-01	5.544e-02	-3.209	0.00134	**
regionSE312	3.332e-01	4.419e-02	7.540	5.28e-14	***
regionSE313	1.028e-01	4.189e-02	2.454	0.01414	*
regionSE321	3.508e-02	4.196e-02	0.836	0.40317	
regionSE322	2.267e-01	4.855e-02	4.669	3.08e-06	***
regionSE331	-8.207e-02	4.007e-02	-2.048	0.04056	*
regionSE332	-9.355e-02	4.590e-02	-2.038	0.04159	*
time_centered	8.557e-05	1.451e-04	0.590	0.55543	

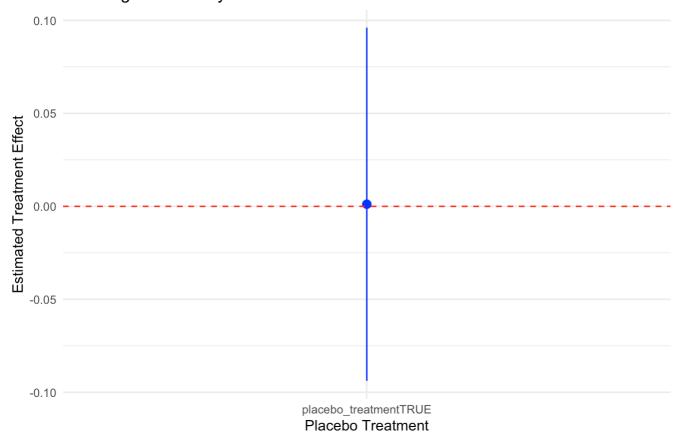
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.6269 on 7259 degrees of freedom Multiple R-squared: 0.05468, Adjusted R-squared: 0.05168 F-statistic: 18.26 on 23 and 7259 DF, p-value: < 2.2e-16

```
#This non-significant result is expected and desirable in a placebo test, as it sugges
#Visuzalize results
# Tidy the placebo model to extract coefficients and confidence intervals
placebo_model1_tidy <- tidy(placebo_model1, conf.int = TRUE)
# Filter to only include the placebo treatment effect</pre>
```

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Placebo Treatment Effect on Perception of Immigration Policy



```
# Perception of refugees
placebo_model2 <- lm(perception_refugees ~ placebo_treatment + agea + region + time_ce
summary(placebo_model2)</pre>
```

```
Call:
```

```
lm(formula = perception_refugees ~ placebo_treatment + agea +
    region + time_centered, data = placebo_data)
```

Residuals:

```
Min 10 Median 30 Max -2.04872 -0.66266 -0.06187 0.57407 2.64360
```

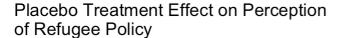
Coefficients:

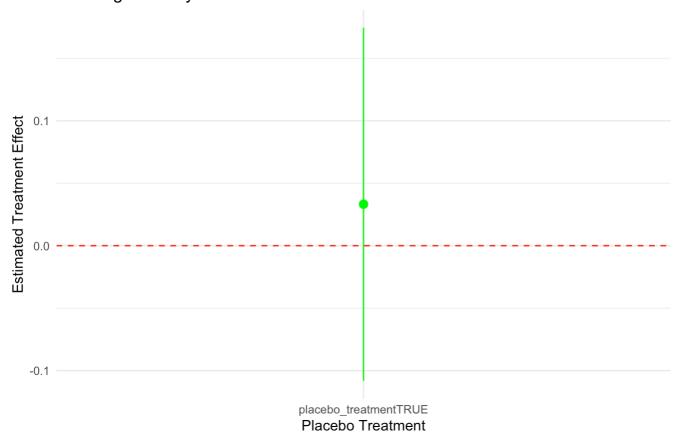
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```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
                 2.4564677 0.0508414 48.316 < 2e-16 ***
placebo treatmentTRUE 0.0332113 0.0721359
                                  0.460 0.64524
                -0.0007332 0.0006811 -1.077 0.28172
regionSE121
                -0.0183866 0.0745611 -0.247 0.80523
regionSE122
                 regionSE123
regionSE124
                 -0.2195632 0.0742200 -2.958 0.00310 **
regionSE125
regionSE211
                -0.1884896 0.0930136 -2.026 0.04275 *
regionSE212
                -0.2400208 0.1233414 -1.946 0.05169 .
                -0.0529183 0.1039397 -0.509 0.61068
regionSE213
regionSE214
                 0.2615897 0.0392408
                                  6.666 2.82e-11 ***
                 0.7200203 0.0721177 9.984 < 2e-16 ***
regionSE221
regionSE224
                 regionSE231
                 0.1346173 0.0704572 1.911 0.05609 .
regionSE232
                -0.0597963 0.0825670 -0.724 0.46896
regionSE311
                 regionSE312
                 regionSE313
                 0.0684820 0.0624840 1.096 0.27312
regionSE321
regionSE322
                 0.6222989 0.0722976 8.607 < 2e-16 ***
regionSE331
                 0.1859795 0.0596684
                                  3.117 0.00183 **
regionSE332
                -0.0615564 0.0683590 -0.900 0.36789
time centered
                -0.0001004 0.0002161 -0.464 0.64234
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.9336 on 7259 degrees of freedom Multiple R-squared: 0.05696, Adjusted R-squared: 0.05397 F-statistic: 19.06 on 23 and 7259 DF, p-value: < 2.2e-16

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```
# Combined perception of immigrants and refugees
placebo_model3 <- lm(combination_value ~ placebo_treatment + agea + region + time_cent
summary(placebo_model3)</pre>
```

Call:

```
lm(formula = combination_value ~ placebo_treatment + agea + region +
time_centered, data = placebo_data)
```

Residuals:

Min 10 Median 30 Max -3.0079 -1.0614 -0.1061 0.8787 4.2130

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.8049254	0.0736325	51.675	< 2e-16 ***
placebo_treatmentTRUE	0.0343507	0.1044729	0.329	0.742316
agea	0.0050120	0.0009864	5.081	3.84e-07 ***
regionSE121	0.1131315	0.1079852	1.048	0.294831
regionSE122	0.7405673	0.0988131	7.495	7.44e-14 ***
regionSE123	0.2805069	0.0769791	3.644	0.000270 ***
regionSE124	0.6420584	0.0958105	6.701	2.22e-11 ***
regionSE125	-0.1881134	0.1074911	-1.750	0.080154 .
regionSE211	-0.0922244	0.1347096	-0.685	0.493608
regionSE212	-0.6345132	0.1786327	-3.552	0.000385 ***
regionSE213	-0.0657260	0.1505336	-0.437	0.662400
regionSE214	0.3139108	0.0568315	5.524	3.44e-08 ***

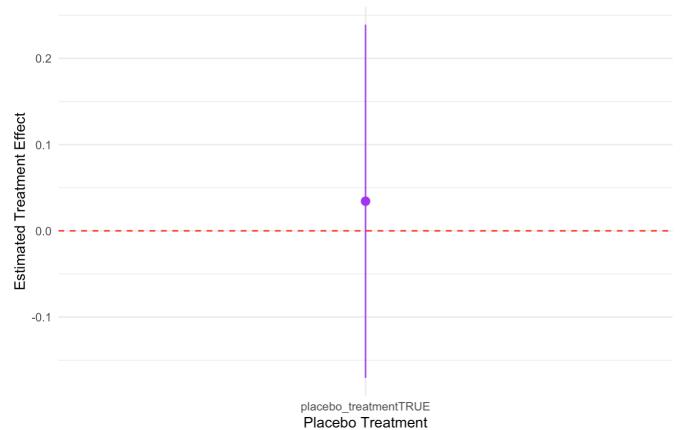
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```
regionSE221
                1.0351279 0.1044464
                                 9.911 < 2e-16 ***
regionSE224
                regionSE231
                0.2061462 0.1020417 2.020 0.043398 *
regionSE232
                -0.2376928 0.1195800 -1.988 0.046879 *
regionSE311
regionSE312
                0.8542400 0.0953162
                                 8.962 < 2e-16 ***
                regionSE313
regionSE321
                0.1035599 0.0904943 1.144 0.252504
regionSE322
                regionSE331
                0.1039075 0.0864164 1.202 0.229246
                -0.1551045 0.0990028 -1.567 0.117236
regionSE332
time centered
                -0.0000148 0.0003130 -0.047 0.962285
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 1.352 on 7259 degrees of freedom Multiple R-squared: 0.05652, Adjusted R-squared: 0.05353 F-statistic: 18.91 on 23 and 7259 DF, p-value: < 2.2e-16

```
# Tidy the placebo model to extract coefficients and confidence intervals
placebo_model3_tidy <- tidy(placebo_model3, conf.int = TRUE)</pre>
# Filter to only include the placebo treatment effect
placebo_model3_treatment <- placebo_model3_tidy %>% filter(term == "placebo_treatmentT")
# Plot the placebo treatment effect with confidence intervals
placebo_plot3 < -ggplot(placebo_model3_treatment, aes(x = term, y = estimate, ymin = c)
  geom pointrange(color = "purple") +
  geom_hline(yintercept = 0, linetype = "dashed", color = "red") + # Null effect line
  labs(title = "Placebo Treatment Effect on Combined Perception\nof Immigration and Re
       x = "Placebo Treatment",
       y = "Estimated Treatment Effect") +
  theme minimal()
# Print the plot
print(placebo_plot3)
```

Placebo Treatment Effect on Combined Perception of Immigration and Refugee Policy



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